



Bruno

Indirect / Open T5 / T5HO

Type:

Project:

SPECIFICATIONS

Pendant Mount — Modular / 8" X 2" Rectangular BRM3

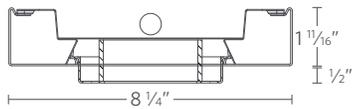
CATALOG NUMBER

FT

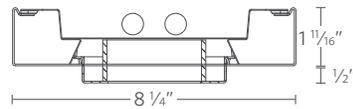
Examples: BRM3 2 28T5 SPR 40FT R8 277 GEB10 DCT LP835 F1/18 SCEP — BRM3 3 54T5HO SPR R8 277 GEB10 1SE EL DCT LP835 F1/21

AVAILABLE FIXTURES

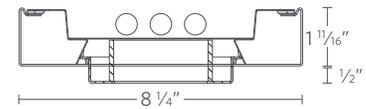
BRM3 - 1



BRM3 - 2



BRM3 - 3



SPECIFICATIONS

Construction

Housing is a nominal 8 1/4" x 1 1/16" rectangular channel formed from cold-rolled steel. 5/8" thick aluminum die cast end cap is standard, 4" sculpted die cast aluminum end cap is optional.

Reflectors

Die formed specular reflector with 95% reflectance.

Shielding

Aluminum die formed drop pan with five 2 3/4" cylinder openings of down light feature. Also

available with optional acrylic opal overlay on top of the openings.

Finish

Fine textured white polyester powder paint is standard. Drop pan always C110 painted Aluminum Finish. Consult factory for special finish requirements.

Electrical

Specify 120V, 277V, or 347V. Pre-wired with 16AWG fixture wire. For special circuiting or wire

gauge, consult factory. Plug-in electrical connectors included. UL and C-UL listed and labeled.

Fixture Length

4' 3/8", 8' and 12' lengths in a single section for nominal support spacing 4'-0" and 8'-0". For total fixture length, add 5/8" for each flat end cap and 4" for each sculpted end cap. Using internal joiners, 4' and 8' sections can be joined to form longer rows. Consult factory for availability of 12' length fixture section.

ORDERING LOGIC

Use guide below to order complete fixture runs from four feet to one-hundred feet in increments of four.

FT									
Fixture	# of Lamps in Cross Section	Lamp Type	Reflector	Shielding	Nominal Row Length ¹	Maximum Section Length	Voltage	Ballast Type	# of Emergency Modules ²
BRM3	1 2 3	28T5 ⁴ 54T5HO	SPR Specular Reflector	Blank No opal Baffle w/ std brightness diffuser/Opal overlay		R4 R8 R12	120 277 347	GEB10 <10% THD ELECTRONIC ADEZ ^{4,5} Advance Mark 10 dimming ECO10 ⁴ Lutron ECO-10 dimming OSDIM ^{4,5} Osram 0-10v dimming <i>Reference Ballast Chart on website or consult factory for other options.</i>	Blank No Emergency 1SE 1 section 2SE 2 sections XSE X sections
Emergency Type ^{2,3}	Switching	Lamp Color	Mounting Type /		Overall Suspension		Finish	Options	
Blank No Emergency or Night Light	SCT Single Circuit	L/LP No Lamp	F1	T-Bar Ceiling (Universal Mounting Bracket)	12	12" overall suspension	C210 Standard White	ACG	Adjustable Cable Grippers
EL Emergency Battery Pack	DCT Dual Circuit	LP830 3000K 80+ CRI	F1A	T-Bar Ceiling (UMB with Integrated J-Box)	15	15" overall suspension	White (fine-textured low gloss)	APF	Alternate Power Feed
EC Emergency / Night Light Circuit		LP835 3500K 80+ CRI	F2	Hard Ceiling (Horizontal J-Box)	18	18" overall suspension	C110 Painted to match Aluminum Finish	CP	Chicago Plenum
EN Emergency Battery Pack with Night Light Circuit		LP830 ⁶ 3000K 80+ CRI Premier Lamp	F3	Stem Mount	21	21" overall suspension	C099 Custom Color	DL	Damp Location Label
		LP835 ⁶ 3500K 80+ CRI Premier Lamp	F4A	IDS Clip 5/16" Tee	24	24" overall suspension		DU	Dust Cover
		LP841 ⁶ 4100K 80+ CRI Premier Lamp	F4B	IDS Clip 3/16" Tee	XX	XX" overall suspension		ELH	EM Through wire w/ Separate Feed
		<i>Reference Lamp Chart on website or consult factory for other options.</i>	F4C	IDS Clip Screw Slot				ELS	EM Through Wire w/ Single Feed
								GLR	Fusing (Fast Blow)
								GMF	Fusing (Slow Blow)
								NYC	New York City Code
								SCEP	Sculptured End Cap

Notes:

- 1 Must be in 4' increments.
- 2 Optional.
- 3 EL and EC are installed in last 4' of fixture sections and are not available concurrently with each other. Separate feed required for each EL or EC unless ELS/ELH is specified.
- 4 Not available in 347 volt.
- 5 Not available with 28T5 Lamp Type.
- 6 Not available with 54T5HO Lamp Type.

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PHOTOMETRICS

Pendant Mount — Modular / 8" X 2" Rectangular

BRM3

Type:

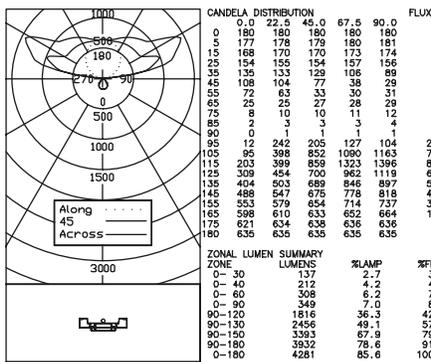
Project:

1-LAMP T5HO

2-LAMP T5HO

FAR-FIELD PHOTOMETRY
REPORT NUMBER: 7552 DATE: 6-23-2008

CATALOG NUMBER: BRM3-1-54T5HO-SPR
LUMINAIRE: B 1 1/4" W X 1 5/8" H INDIRECT/DIRECT LIGHT WITH SPECULAR AND WHITE PAINTED REFLECTOR AND CIRCLE OPENING
LAMP(S): 1-FP54/835/HO RATED @ 5000 LUMENS EACH
BALLAST: QTP 1X54T5HO/UNV PSN
MOUNTING:
LUMEN TO CANDELA RATIO USED = 9.15
TOTAL INPUT WATTS = 60.9 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



ZONAL LUMEN SUMMARY		%LAMP		%FIXT	
ZONE	LUMENS				
0-30	137	2.7	3.2		
0-40	212	4.2	4.9		
0-60	308	6.2	7.2		
0-90	349	7.0	8.2		
90-120	1816	36.3	42.4		
90-130	2456	49.1	57.4		
90-150	3323	67.8	79.2		
90-180	3932	78.6	91.8		
0-180	4281	85.6	100.0		

LUMINANCE DATA IN FOOTLAMBERTS
ANGLE AVERAGE AVERAGE AVERAGE
IN DEG 0-DEG 45-DEG 90-DEG
45 2249. 1599. 608.
55 1845. 838. 796.
65 891. 830. 896.
75 483. 591. 698.
85 314. 511. 629.

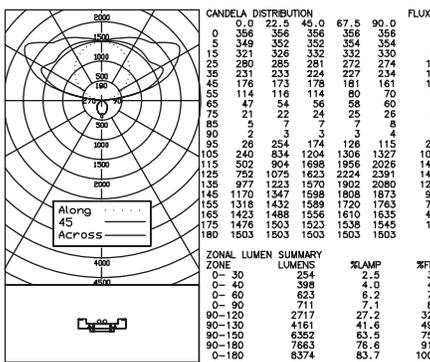
TOTAL LUMINAIRE EFFICIENCY = 85.6 %
CIE TYPE - INDIRECT

APPROVED BY: [Signature]

BARE LAMP LUMEN VALUE IS RATED AT LAMP OPERATING TEMPERATURE INSIDE THE LUMINAIRE. FOR DETAIL EXPLANATIONS, PLEASE SEE PEERLESS PUBLICATION # A62

FAR-FIELD PHOTOMETRY
REPORT NUMBER: 7547 DATE: 6-23-2008

CATALOG NUMBER: BRM3-2-54T5HO-SPR
LUMINAIRE: B 1 1/4" W X 1 5/8" H INDIRECT/DIRECT LIGHT WITH SPECULAR AND WHITE PAINTED REFLECTOR AND CIRCLE OPENING
LAMP(S): 2-FP54/835/HO RATED @ 5000 LUMENS EACH
BALLAST: QTP 2X54T5HO/UNV PSN
MOUNTING:
LUMEN TO CANDELA RATIO USED = 9.15
TOTAL INPUT WATTS = 124.8 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



ZONAL LUMEN SUMMARY		%LAMP		%FIXT	
ZONE	LUMENS				
0-30	254	2.5	3.0		
0-40	398	4.0	4.8		
0-60	623	6.2	7.4		
0-90	711	7.1	8.5		
90-120	2717	27.2	32.4		
90-130	4161	41.6	49.7		
90-150	6352	63.5	75.9		
90-180	7663	76.6	91.5		
0-180	8374	83.7	100.0		

LUMINANCE DATA IN FOOTLAMBERTS
ANGLE AVERAGE AVERAGE AVERAGE
IN DEG 0-DEG 45-DEG 90-DEG
45 3672. 3715. 3351.
55 2934. 2940. 1796.
65 1638. 1838. 2075.
75 1174. 1361. 1467.
85 859. 1132. 1327.

TOTAL LUMINAIRE EFFICIENCY = 83.7 %
CIE TYPE - INDIRECT

APPROVED BY: [Signature]

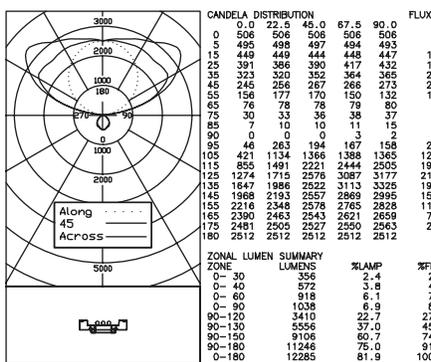
BARE LAMP LUMEN VALUE IS RATED AT LAMP OPERATING TEMPERATURE INSIDE THE LUMINAIRE. TESTED IN ACCORDANCE WITH IES PROCEDURES. TEST DISTANCE EXCEEDS 25.0 FEET

3-LAMP T5HO

1-LAMP T5HO WITH OPD

FAR-FIELD PHOTOMETRY
REPORT NUMBER: 7545 DATE: 5-1-2008

CATALOG NUMBER: BRM3-3-54T5HO-SPR
LUMINAIRE: B 1 1/4" W X 1 5/8" H INDIRECT/DIRECT LIGHT WITH SPECULAR AND WHITE PAINTED REFLECTOR AND CIRCLE OPENING
LAMP(S): 3-FP54/835/HO RATED @ 5000 LUMENS EACH
BALLAST: QTP 1X54T5HO/UNV PSN & QTP 2X54T5HO/UNV PSN
MOUNTING:
LUMEN TO CANDELA RATIO USED = 9.15
TOTAL INPUT WATTS = 181.6 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



ZONAL LUMEN SUMMARY		%LAMP		%FIXT	
ZONE	LUMENS				
0-30	356	2.4	2.9		
0-40	572	3.8	4.7		
0-60	918	6.1	7.5		
0-90	1038	6.9	8.5		
90-120	3410	22.7	27.8		
90-130	5556	37.0	45.2		
90-150	9106	60.7	74.1		
90-180	11246	75.0	91.5		
0-180	12285	81.9	100.0		

LUMINANCE DATA IN FOOTLAMBERTS
ANGLE AVERAGE AVERAGE AVERAGE
IN DEG 0-DEG 45-DEG 90-DEG
45 5113. 5565. 5701.
55 4017. 4379. 3403.
65 2643. 2719. 2794.
75 1740. 2051. 2113.
85 1091. 1636. 2546.

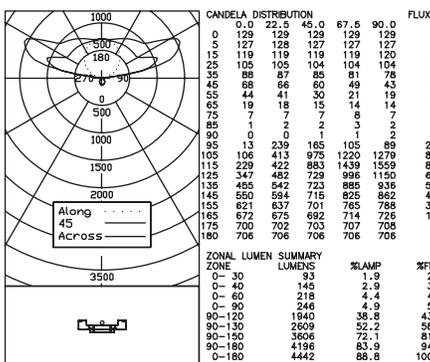
TOTAL LUMINAIRE EFFICIENCY = 81.9 %
CIE TYPE - INDIRECT

APPROVED BY: [Signature]

BARE LAMP LUMEN VALUE IS RATED AT LAMP OPERATING TEMPERATURE INSIDE THE LUMINAIRE. FOR DETAIL EXPLANATIONS, PLEASE SEE PEERLESS PUBLICATION # A62

FAR-FIELD PHOTOMETRY
REPORT NUMBER: 7566 DATE: 6-18-2008

CATALOG NUMBER: BRM3-1-54T5HO-SPR-OPD
LUMINAIRE: B 1 1/4" W X 1 5/8" H INDIRECT/DIRECT LIGHT WITH SPECULAR AND WHITE PAINTED REFLECTOR AND OPAL CIRCLE OPENING
LAMP(S): 1-FP54/835/HO RATED @ 5000 LUMENS EACH
BALLAST: QTP 1X54T5HO/UNV PSN
MOUNTING:
LUMEN TO CANDELA RATIO USED = 9.15
TOTAL INPUT WATTS = 60.9 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



ZONAL LUMEN SUMMARY		%LAMP		%FIXT	
ZONE	LUMENS				
0-30	149	1.9	2.1		
0-40	218	2.9	3.3		
0-60	347	4.4	4.9		
0-90	449	5.8	6.5		
90-120	1940	24.8	27.8		
90-130	2609	32.2	36.7		
90-150	3606	45.1	51.2		
90-180	4196	52.2	59.5		
0-180	4442	54.9	62.0		

LUMINANCE DATA IN FOOTLAMBERTS
ANGLE AVERAGE AVERAGE AVERAGE
IN DEG 0-DEG 45-DEG 90-DEG
45 1428. 1252. 890.
55 1211. 766. 484.
65 669. 522. 473.
75 403. 416. 403.
85 236. 354. 393.

TOTAL LUMINAIRE EFFICIENCY = 88.8 %
CIE TYPE - INDIRECT

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PHOTOMETRICS

Pendant Mount — Modular / 8" X 2" Rectangular

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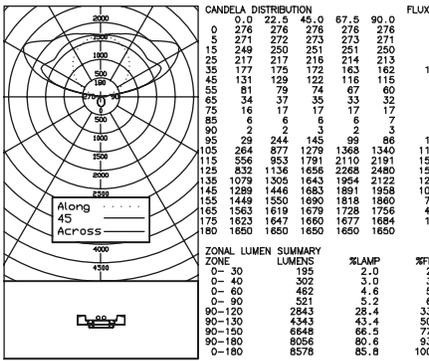
Type:

Project:

2-LAMP T5HO WITH OPD

3-LAMP T5HO WITH OPD

FAR-FIELD PHOTOMETRY
 REPORT NUMBER: 7568 DATE: 6-18-2008
 CATALOG NUMBER: BRM3-2-5AT5HO-SPR-OPD
 LUMINAIRE: 8 1/4" W X 1 5/8" H INDIRECT/DIRECT LIGHT WITH SPECULAR AND WHITE PAINTED REFLECTOR AND OPAL CIRCLE OPENING
 LAMP(S): 2-FPS4/835/HO RATED @ 5000 LUMENS EACH
 BALLAST: QTP 2X54T5HO/UNV PSN
 MOUNTING:
 LUMEN TO CANDELA RATIO USED = 9.15
 TOTAL INPUT WATTS = 124.8 AT 120.0 VOLTS
 THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



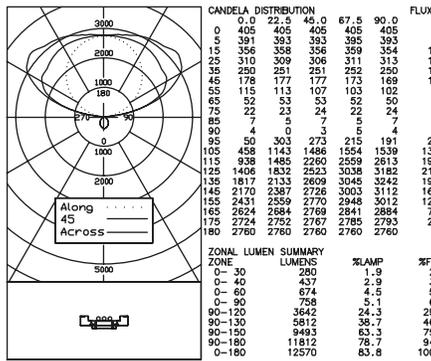
LUMINANCE DATA IN FOOTLAMBERTS
 ANGLE AVERAGE AVERAGE AVERAGE
 IN DEG 0-DEG 45-DEG 90-DEG
 45 2729. 2535. 2389.
 55 2072. 1804. 1545.
 65 1184. 1224. 1103.
 75 907. 947. 987.
 85 937. 1054. 1093.

TOTAL LUMINAIRE EFFICIENCY = 85.8 %
 CIE TYPE - INDIRECT

APPROVED BY:

BARE LAMP LUMEN VALUE IS RATED AT LAMP OPERATING TEMPERATURE INSIDE THE LUMINAIRE.
 FOR DETAIL EXPLANATIONS, PLEASE SEE PEERLESS PUBLICATION # A62

FAR-FIELD PHOTOMETRY
 REPORT NUMBER: 7564 DATE: 6-18-2008
 CATALOG NUMBER: BRM3-3-5AT5HO-SPR-OPD
 LUMINAIRE: 8 1/4" W X 1 5/8" H INDIRECT/DIRECT LIGHT WITH SPECULAR AND WHITE PAINTED REFLECTOR AND OPAL CIRCLE OPENING
 LAMP(S): 3-FPS4/835/HO RATED @ 5000 LUMENS EACH
 BALLAST: QTP 1X54T5HO/UNV PSN & QTP 2X54T5HO/UNV PSN
 MOUNTING:
 LUMEN TO CANDELA RATIO USED = 9.15
 TOTAL INPUT WATTS = 181.8 AT 120.0 VOLTS
 THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



LUMINANCE DATA IN FOOTLAMBERTS
 ANGLE AVERAGE AVERAGE AVERAGE
 IN DEG 0-DEG 45-DEG 90-DEG
 45 3710. 3688. 3529.
 55 2897. 2761. 2622.
 65 1813. 1850. 1737.
 75 1243. 1367. 1367.
 85 1091. 1091. 1091.

TOTAL LUMINAIRE EFFICIENCY = 83.8 %
 CIE TYPE - INDIRECT

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