

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247200

Luminaire Tested: **LSR8B100D010 EC8B100835 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100835 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11901.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

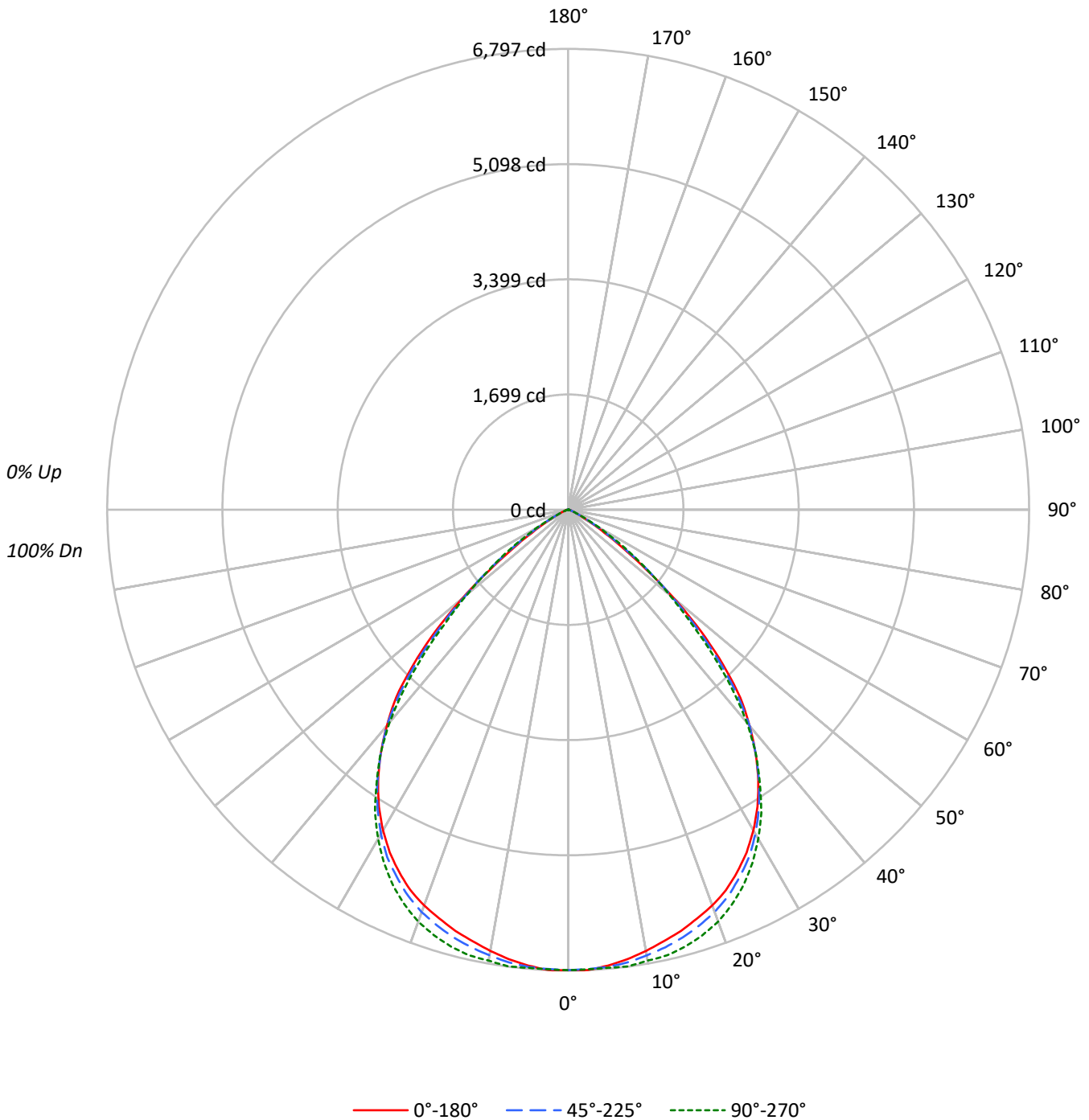
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	209431	209431	209431
5°	208903	209507	209949
10°	206922	208998	211441
15°	205285	208519	213001
20°	203849	207219	212210
25°	200657	203444	207955
30°	194445	196574	199579
35°	183899	184728	185413
40°	167509	167352	165102
45°	140836	136584	130692
50°	97821	95639	93082
55°	52331	57853	61272
60°	25329	28776	32458
65°	11098	11193	11660
70°	5978	5509	5392
75°	5266	4801	3407
80°	231	923	0
85°	460	460	2300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.4	5.4
10°-20°	1845.0	15.5
20°-30°	2753.0	23.1
30°-40°	3048.9	25.6
40°-50°	2377.7	20.0
50°-60°	996.6	8.4
60°-70°	199.6	1.7
70°-80°	31.8	0.3
80°-90°	5.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5241.4	44.0
0°-40°	8290.3	69.7
0°-60°	11664.7	98.0
0°-90°	11901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6792	6792	6792	6792	6792	
5°	6749	6754	6768	6786	6783	640
15°	6430	6459	6532	6628	6672	1814
25°	5898	5921	5979	6072	6112	2710
35°	4885	4877	4907	4931	4925	3036
45°	3230	3215	3132	3036	2997	2443
55°	973	1011	1076	1119	1140	948
65°	152	152	153	165	160	184
75°	44	40	40	31	29	36
85°	1	3	1	0	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6791.7	6791.7	6791.7	6791.7	6791.7
2.5°	6796.8	6783.9	6781.3	6789.1	6783.9
5°	6748.8	6754.0	6768.3	6786.5	6782.6
7.5°	6686.4	6695.5	6734.5	6781.3	6793.0
10°	6608.4	6627.9	6674.7	6728.0	6752.7
12.5°	6517.4	6543.4	6611.0	6687.7	6733.2
15°	6430.4	6459.0	6531.7	6627.9	6672.1
17.5°	6321.2	6358.9	6430.4	6534.3	6579.8
20°	6212.0	6245.8	6314.7	6416.1	6466.8
22.5°	6076.9	6101.6	6166.5	6252.3	6304.3
25°	5897.5	5920.9	5979.4	6071.7	6112.0
27.5°	5697.4	5724.7	5778.0	5841.7	5878.0
30°	5460.9	5483.0	5520.7	5577.8	5605.1
32.5°	5194.5	5195.8	5233.4	5276.3	5301.0
35°	4885.2	4877.4	4907.2	4930.6	4925.4
37.5°	4543.4	4544.7	4542.1	4544.7	4549.9
40°	4161.3	4143.1	4157.4	4124.9	4101.5
42.5°	3755.8	3737.6	3681.7	3610.3	3571.3
45°	3229.5	3215.2	3132.0	3035.8	2996.9
47.5°	2651.2	2607.0	2539.4	2457.5	2419.8
50°	2039.1	2033.9	1993.6	1974.1	1940.3
52.5°	1458.1	1458.1	1507.5	1499.7	1498.4
55°	973.4	1011.1	1076.1	1118.9	1139.7
57.5°	634.2	669.3	723.9	769.4	790.2
60°	410.7	427.6	466.6	501.6	526.3
62.5°	254.7	269.0	289.8	311.9	321.0
65°	152.1	152.1	153.4	165.0	159.8
67.5°	102.7	106.6	101.4	101.4	114.4
70°	66.3	62.4	61.1	59.8	59.8
72.5°	42.9	36.4	39.0	41.6	36.4
75°	44.2	40.3	40.3	31.2	28.6
77.5°	15.6	16.9	11.7	9.1	7.8
80°	1.3	5.2	5.2	1.3	0.0
82.5°	15.6	14.3	11.7	18.2	11.7
85°	1.3	2.6	1.3	0.0	6.5
87.5°	0.0	0.0	0.0	1.3	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)