

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: P247948

Luminaire Tested: **LD8B200D010 ER8B200827 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200827 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22009.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

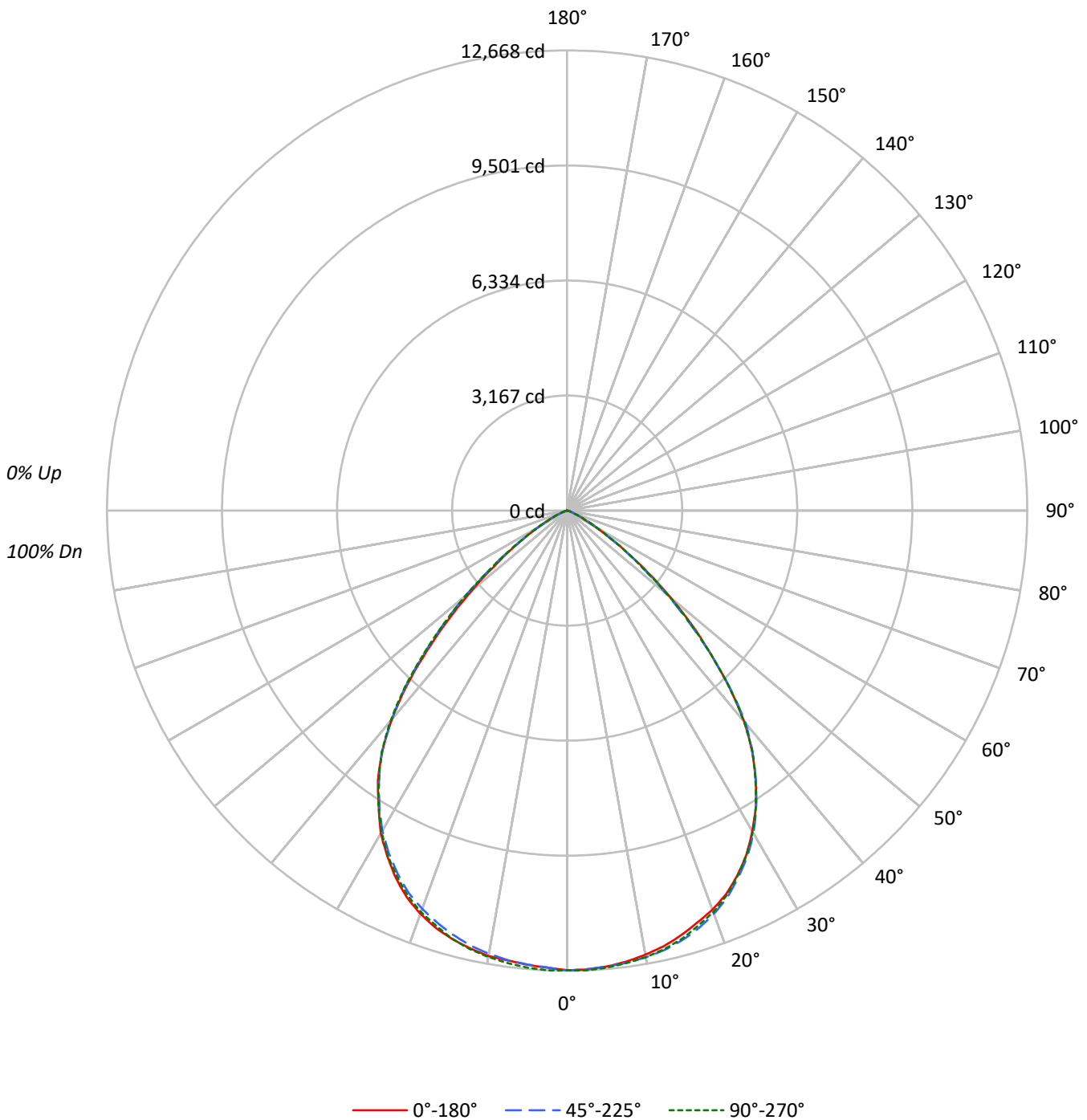
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	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	58	51	46	56	50	46	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°	90°	180°
0°	390240	390240	390240
5°	389954	390882	388524
10°	388598	390749	389888
15°	386508	389618	389899
20°	383696	385951	387670
25°	377184	377610	379733
30°	362900	363698	365343
35°	340706	340096	342069
40°	305475	304670	302508
45°	243980	243928	237774
50°	176334	174659	164595
55°	108071	107265	102362
60°	55518	57676	56825
65°	27055	28150	28602
70°	11594	11928	11369
75°	9079	9079	7887
80°	4883	4439	3996
85°	3963	2654	5732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1198.2	5.4
10°-20°	3436.8	15.6
20°-30°	5105.8	23.2
30°-40°	5626.8	25.6
40°-50°	4285.7	19.5
50°-60°	1847.5	8.4
60°-70°	424.4	1.9
70°-80°	70.5	0.3
80°-90°	13.2	0.1
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°	9740.8	44.3
0°-40°	15367.6	69.8
0°-60°	21500.8	97.7
0°-90°	22009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22009.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12655	12655	12655	12655	12655	
5°	12598	12597	12628	12543	12552	###
15°	12107	12242	12204	12096	12213	3415
25°	11086	11148	11098	11033	11161	5088
35°	9051	9056	9034	9027	9087	5619
45°	5595	5584	5594	5564	5452	4316
55°	2010	2009	1995	2008	1904	1874
65°	371	407	386	383	392	414
75°	76	76	76	77	66	70
85°	11	8	8	22	16	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	12655.2	12655.2	12655.2	12655.2	12655.2	12655.2	12655.2	12655.2	12655.2
2.5°	12641.5	12642.8	12634.0	12652.7	12667.7	12619.0	12590.3	12655.2	12592.8
5°	12597.8	12606.6	12596.6	12620.3	12627.8	12587.8	12542.9	12612.8	12551.6
7.5°	12522.9	12540.4	12555.4	12582.8	12562.9	12512.9	12482.9	12565.3	12490.4
10°	12410.5	12454.2	12486.7	12527.9	12479.2	12425.5	12389.3	12501.7	12451.7
12.5°	12284.4	12334.4	12389.3	12439.2	12365.6	12286.9	12268.2	12388.1	12343.1
15°	12107.1	12153.3	12242.0	12289.4	12204.5	12114.6	12095.9	12248.2	12213.3
17.5°	11898.6	11979.8	12054.7	12092.2	11984.8	11907.4	11897.4	12054.7	12041.0
20°	11692.6	11736.3	11813.7	11863.7	11761.3	11668.9	11665.1	11827.5	11813.7
22.5°	11431.7	11470.4	11521.6	11567.8	11471.6	11394.2	11399.2	11532.8	11530.3
25°	11085.8	11112.0	11148.3	11199.4	11098.3	11043.4	11033.4	11175.7	11160.7
27.5°	10682.5	10700.0	10741.2	10784.9	10697.5	10648.8	10631.4	10773.7	10723.7
30°	10191.9	10231.8	10260.5	10279.3	10214.3	10184.4	10171.9	10284.3	10260.5
32.5°	9671.2	9685.0	9686.2	9732.4	9663.7	9621.3	9621.3	9711.2	9657.5
35°	9050.7	9048.2	9055.7	9105.6	9034.5	9049.4	9027.0	9098.1	9086.9
37.5°	8370.2	8381.5	8384.0	8423.9	8384.0	8394.0	8385.2	8396.5	8360.3
40°	7588.7	7637.3	7653.6	7646.1	7568.7	7542.5	7520.0	7561.2	7515.0
42.5°	6618.5	6641.0	6643.5	6648.5	6627.3	6623.5	6596.1	6613.5	6541.1
45°	5594.7	5604.7	5583.5	5579.7	5593.5	5614.7	5563.5	5523.6	5452.4
47.5°	4659.6	4624.6	4528.5	4563.4	4578.4	4632.1	4577.2	4469.8	4411.1
50°	3675.7	3639.5	3565.8	3582.1	3640.8	3721.9	3658.2	3509.7	3431.0
52.5°	2808.0	2766.8	2684.4	2699.4	2716.8	2778.0	2744.3	2643.2	2567.0
55°	2010.2	1981.4	2008.9	1986.4	1995.2	2053.9	2007.7	1924.0	1904.0
57.5°	1358.4	1374.6	1397.1	1400.9	1383.4	1365.9	1359.7	1327.2	1344.7
60°	900.2	912.7	950.1	961.4	935.2	897.7	905.2	905.2	921.4
62.5°	581.8	593.1	636.8	644.2	606.8	596.8	596.8	593.1	623.0
65°	370.8	393.3	407.0	387.0	385.8	372.1	383.3	383.3	392.0
67.5°	222.2	202.3	216.0	224.7	216.0	204.8	202.3	203.5	216.0
70°	128.6	123.6	132.3	127.4	132.3	114.9	128.6	122.4	126.1
72.5°	82.4	81.2	81.2	86.1	81.2	78.7	83.7	72.4	79.9
75°	76.2	76.2	76.2	66.2	76.2	73.7	77.4	58.7	66.2
77.5°	30.0	35.0	42.5	41.2	41.2	38.7	35.0	30.0	46.2
80°	27.5	25.0	33.7	40.0	25.0	30.0	33.7	21.2	22.5
82.5°	13.7	12.5	16.2	16.2	16.2	8.7	22.5	13.7	11.2
85°	11.2	5.0	7.5	7.5	7.5	10.0	22.5	6.2	16.2
87.5°	2.5	3.7	6.2	6.2	7.5	12.5	22.5	5.0	18.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)