

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: P248149

Luminaire Tested: **LD8B200D010 ER8B200935 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200935 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20508.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

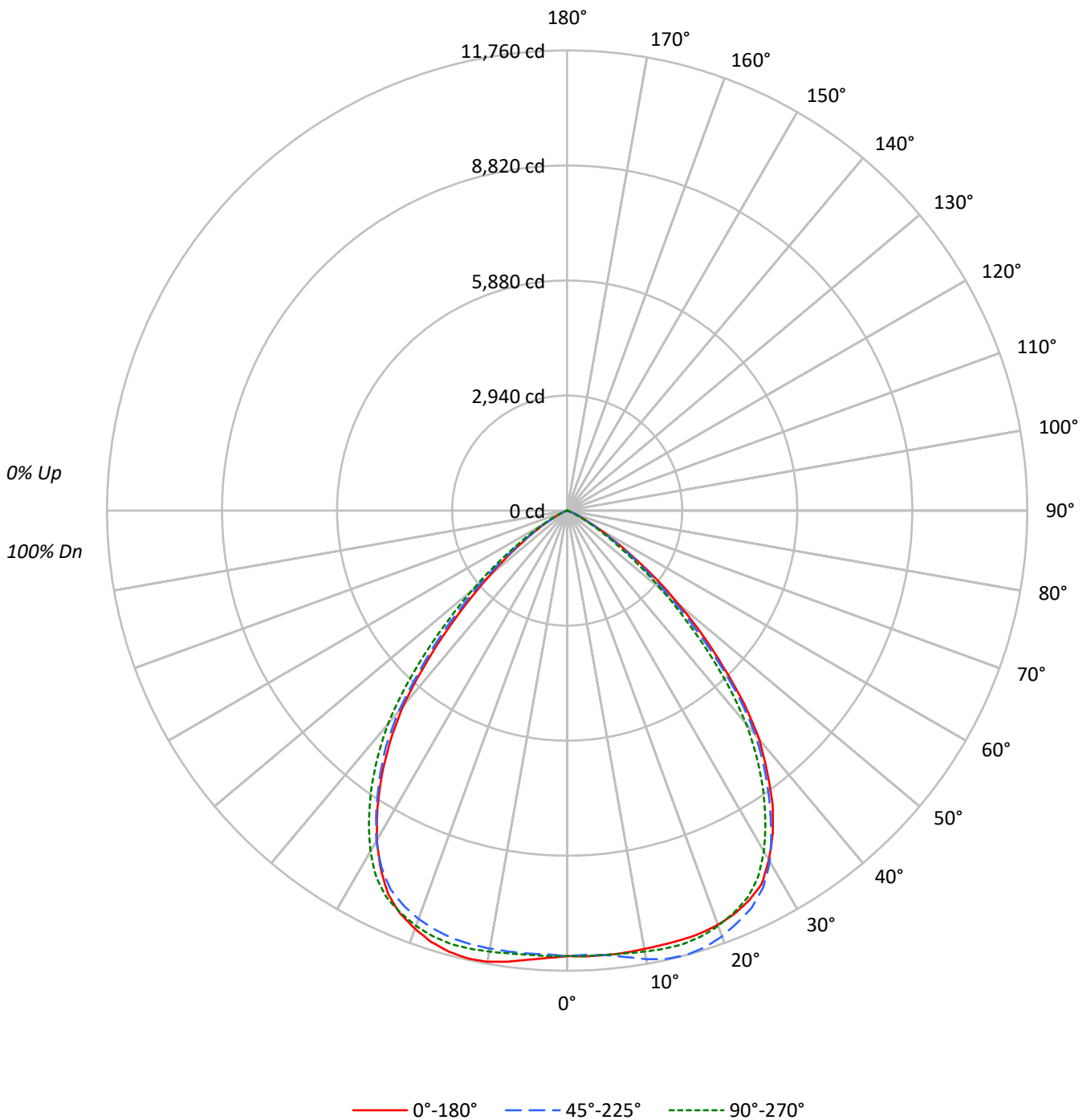
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73					73			
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	351081	351081	351081
5°	352948	352700	356601
10°	356212	358344	366551
15°	362450	366074	372522
20°	369665	370633	373163
25°	374167	371349	368107
30°	367123	358154	346111
35°	344426	329089	311103
40°	307681	286850	262637
45°	245380	220880	191435
50°	177758	151738	123587
55°	110254	89690	70895
60°	56696	44583	35628
65°	24181	18132	13914
70°	7673	3787	2452
75°	2025	1215	1215
80°	1616	1012	799
85°	1203	389	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1091.6	5.3
10°-20°	3249.1	15.8
20°-30°	4994.2	24.4
30°-40°	5398.7	26.3
40°-50°	3884.8	18.9
50°-60°	1567.6	7.6
60°-70°	301.4	1.5
70°-80°	17.9	0.1
80°-90°	2.5	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°	9335.0	45.5
0°-40°	14733.7	71.8
0°-60°	20186.1	98.4
0°-90°	20508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20508.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11385	11385	11385	11385	11385	
5°	11402	11406	11394	11361	11520	###
15°	11354	11760	11467	11316	11669	3213
25°	10997	11186	10914	10679	10819	5045
35°	9150	9004	8742	8364	8264	5666
45°	5627	5460	5065	4650	4390	4346
55°	2051	1896	1668	1441	1319	1912
65°	331	338	248	194	191	388
75°	17	14	10	10	10	28
85°	3	2	1	1	1	4
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°	11385.3	11385.3	11385.3	11385.3	11385.3	11385.3	11385.3	11385.3	11385.3
2.5°	11402.3	11386.4	11363.7	11362.6	11398.9	11378.5	11353.5	11379.6	11444.3
5°	11402.3	11404.6	11405.7	11395.5	11394.3	11360.3	11361.4	11431.8	11520.3
7.5°	11394.3	11438.6	11507.8	11491.9	11412.5	11337.6	11368.2	11510.1	11628.1
10°	11376.2	11479.5	11638.3	11614.5	11444.3	11317.2	11366.0	11563.4	11706.4
12.5°	11360.3	11502.2	11737.1	11708.7	11470.4	11303.6	11352.4	11570.3	11724.6
15°	11353.5	11506.7	11759.8	11724.6	11467.0	11276.3	11316.0	11520.3	11669.0
17.5°	11328.5	11471.5	11703.0	11659.9	11408.0	11212.8	11229.8	11415.9	11556.6
20°	11265.0	11387.5	11577.1	11518.0	11294.5	11098.1	11103.8	11244.5	11371.6
22.5°	11157.2	11253.6	11390.9	11334.2	11125.4	10947.2	10923.4	11041.4	11148.1
25°	10997.1	11075.4	11185.5	11124.2	10914.3	10732.7	10679.4	10754.3	10819.0
27.5°	10762.2	10789.4	10851.9	10757.7	10563.6	10385.4	10274.2	10285.6	10319.6
30°	10310.5	10354.8	10360.5	10252.6	10058.6	9852.0	9749.9	9693.1	9720.4
32.5°	9779.4	9766.9	9710.2	9579.6	9427.6	9263.0	9070.1	9005.4	9020.1
35°	9149.5	9120.0	9004.3	8879.4	8742.1	8540.1	8364.2	8268.8	8264.3
37.5°	8382.3	8342.6	8266.6	8094.1	7968.1	7797.9	7606.1	7500.5	7421.1
40°	7643.5	7581.1	7491.4	7284.9	7126.0	6888.8	6692.5	6546.1	6524.5
42.5°	6690.2	6659.6	6531.3	6323.6	6125.0	5844.7	5616.6	5494.0	5430.5
45°	5626.8	5626.8	5460.0	5277.3	5065.0	4856.2	4649.7	4466.9	4389.8
47.5°	4674.6	4556.6	4398.9	4203.7	4048.2	3900.6	3681.6	3456.9	3404.7
50°	3705.4	3630.5	3444.4	3258.3	3163.0	3022.2	2849.7	2631.8	2576.2
52.5°	2863.3	2745.3	2584.2	2445.7	2356.0	2246.0	2058.7	1910.0	1881.7
55°	2050.8	1990.6	1896.4	1782.9	1668.3	1552.5	1441.3	1356.2	1318.7
57.5°	1405.0	1384.6	1306.3	1239.3	1128.1	1025.9	923.8	896.6	898.8
60°	919.3	918.1	879.5	819.4	722.9	629.9	582.2	568.6	577.7
62.5°	556.1	566.3	556.1	520.9	447.1	375.7	341.6	348.4	342.7
65°	331.4	341.6	338.2	292.8	248.5	217.9	194.1	185.0	190.7
67.5°	192.9	187.3	172.5	150.9	123.7	102.1	86.3	78.3	79.4
70°	85.1	80.6	72.6	55.6	42.0	34.0	28.4	26.1	27.2
72.5°	31.8	30.6	26.1	21.6	18.2	14.8	13.6	13.6	13.6
75°	17.0	15.9	13.6	11.3	10.2	10.2	10.2	10.2	10.2
77.5°	12.5	11.3	10.2	9.1	7.9	6.8	6.8	6.8	6.8
80°	9.1	7.9	6.8	5.7	5.7	4.5	4.5	4.5	4.5
82.5°	5.7	5.7	4.5	3.4	3.4	2.3	2.3	2.3	2.3
85°	3.4	3.4	2.3	2.3	1.1	1.1	1.1	1.1	1.1
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)