

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: P248059

Luminaire Tested: **LD8B200D010 ER8B200830 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248059  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200830 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22159.0 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

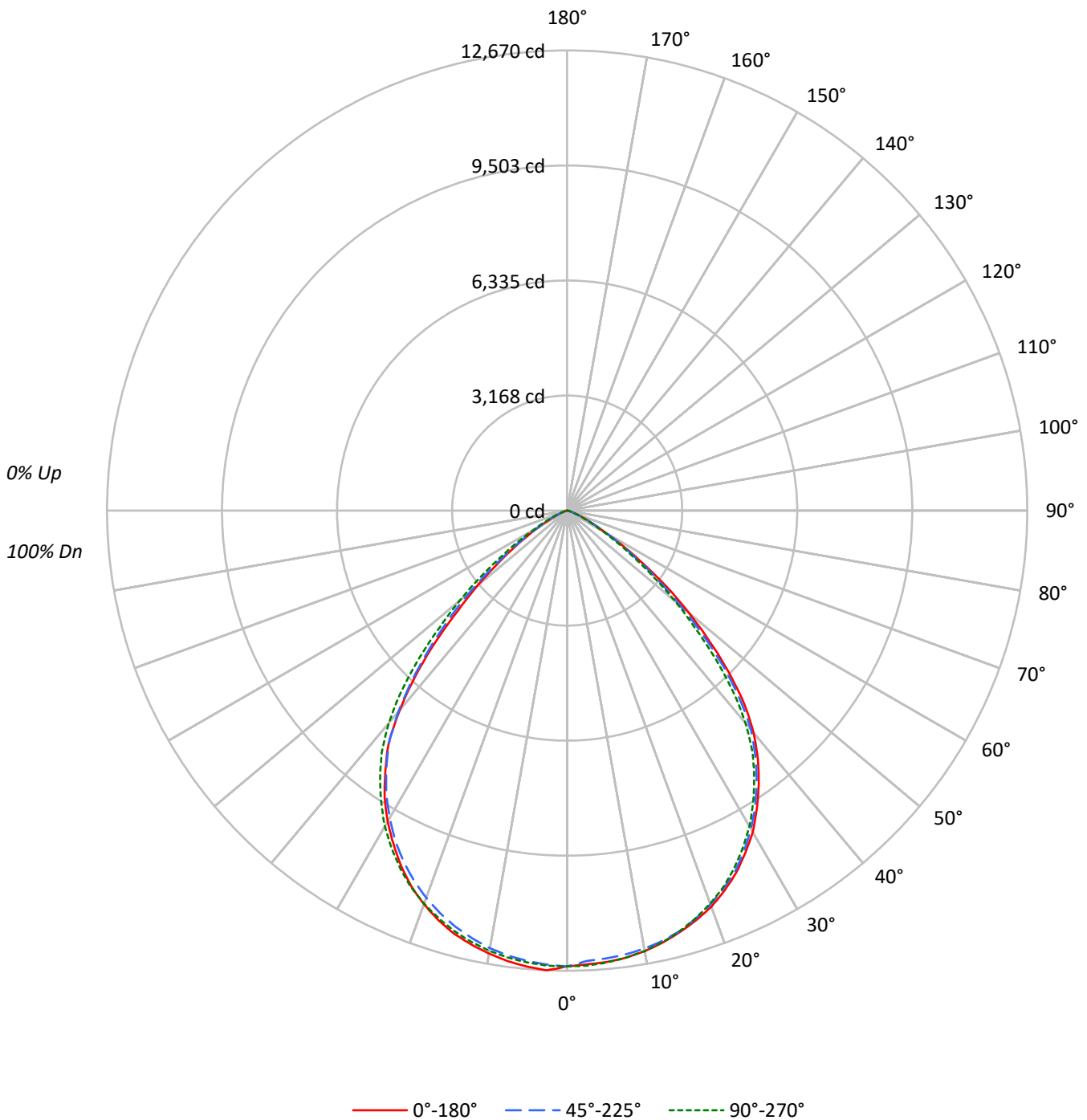
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	387014	387014	387014
5°	386233	386629	390077
10°	385692	385451	387815
15°	383466	382770	384855
20°	380901	377878	378466
25°	374466	369982	367760
30°	363950	357527	351876
35°	346334	338000	328604
40°	321609	307806	288794
45°	274136	252314	224016
50°	208739	185962	155139
55°	137602	119920	96599
60°	77270	67957	53353
65°	40525	36227	25771
70°	19384	17076	10729
75°	10973	11890	7470
80°	8417	8186	4315
85°	4989	4069	1804



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1185.2	5.3
10°-20°	3375.9	15.2
20°-30°	4987.3	22.5
30°-40°	5557.8	25.1
40°-50°	4389.2	19.8
50°-60°	2026.9	9.1
60°-70°	520.7	2.3
70°-80°	100.3	0.5
80°-90°	15.7	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°	9548.4	43.1
0°-40°	15106.2	68.2
0°-60°	21522.3	97.1
0°-90°	22159.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22159.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	12551	12551	12551	12551	12551	
5°	12478	12378	12490	12452	12602	###
15°	12012	11984	11990	11865	12055	3390
25°	11006	10955	10874	10656	10809	5058
35°	9200	9098	8979	8679	8729	5729
45°	6286	6103	5786	5324	5137	4798
55°	2560	2412	2231	1909	1797	2372
65°	555	563	496	380	353	610
75°	92	97	100	76	63	111
85°	14	14	12	6	5	20
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°	12550.6	12550.6	12550.6	12550.6	12550.6	12550.6	12550.6	12550.6	12550.6
2.5°	12503.2	12562.1	12412.4	12533.9	12539.1	12453.3	12512.2	12582.6	12669.6
5°	12477.6	12537.8	12377.8	12490.4	12490.4	12397.0	12452.0	12513.5	12601.8
7.5°	12417.5	12482.8	12325.3	12430.3	12413.6	12311.3	12359.9	12420.0	12514.8
10°	12317.7	12398.3	12244.7	12344.5	12310.0	12192.3	12234.5	12297.2	12385.5
12.5°	12180.7	12276.7	12133.4	12220.4	12165.4	12031.0	12065.6	12146.2	12233.2
15°	12011.8	12110.3	11983.7	12059.2	11990.0	11840.3	11864.6	11946.5	12055.3
17.5°	11823.7	11919.7	11777.6	11859.5	11767.4	11612.5	11621.5	11716.2	11814.7
20°	11607.4	11686.7	11540.9	11618.9	11515.3	11345.1	11346.3	11430.8	11533.2
22.5°	11323.3	11406.5	11255.5	11320.7	11226.0	11044.3	11022.6	11104.5	11203.0
25°	11005.9	11092.9	10954.7	10977.8	10874.1	10686.0	10656.5	10716.7	10808.8
27.5°	10625.8	10711.6	10555.4	10584.9	10471.0	10290.5	10250.9	10282.9	10355.8
30°	10221.4	10275.2	10126.7	10151.0	10041.0	9827.3	9767.1	9810.6	9882.3
32.5°	9723.6	9762.0	9635.3	9648.1	9529.1	9344.8	9265.4	9278.2	9351.2
35°	9200.2	9220.7	9097.8	9100.4	8978.8	8791.9	8679.3	8672.9	8729.2
37.5°	8623.0	8637.1	8512.9	8506.5	8381.1	8178.9	8061.2	8040.7	8075.3
40°	7989.5	8008.7	7879.5	7838.5	7646.6	7416.2	7224.2	7188.4	7174.3
42.5°	7221.7	7169.2	7033.5	6964.4	6771.2	6475.6	6297.7	6243.9	6197.9
45°	6286.2	6243.9	6103.2	5947.0	5785.8	5563.1	5323.8	5176.6	5136.9
47.5°	5304.6	5254.7	5052.5	4915.5	4756.9	4654.5	4397.2	4170.7	4072.2
50°	4351.2	4296.1	4070.9	3969.8	3876.4	3724.1	3474.5	3271.1	3233.9
52.5°	3469.4	3386.2	3193.0	3088.1	3004.9	2835.9	2610.7	2493.0	2430.3
55°	2559.5	2546.7	2412.3	2336.8	2230.6	2096.2	1909.4	1821.1	1796.8
57.5°	1864.6	1817.3	1766.1	1702.1	1609.9	1441.0	1325.8	1259.3	1254.2
60°	1252.9	1268.2	1268.2	1197.9	1101.9	991.8	899.7	863.8	865.1
62.5°	840.8	851.0	848.5	817.8	743.5	654.0	593.8	568.2	569.5
65°	555.4	552.9	563.1	541.3	496.5	433.8	380.1	366.0	353.2
67.5°	353.2	357.1	353.2	341.7	314.8	270.0	234.2	212.4	206.0
70°	215.0	209.9	211.2	208.6	189.4	167.6	142.1	124.1	119.0
72.5°	129.3	133.1	134.4	138.2	135.7	120.3	102.4	89.6	87.0
75°	92.1	93.4	97.3	101.1	99.8	89.6	75.5	66.5	62.7
77.5°	69.1	69.1	71.7	76.8	72.9	64.0	53.7	46.1	43.5
80°	47.4	48.6	49.9	49.9	46.1	41.0	32.0	26.9	24.3
82.5°	28.2	29.4	28.2	28.2	25.6	20.5	15.4	14.1	12.8
85°	14.1	14.1	14.1	14.1	11.5	9.0	6.4	5.1	5.1
87.5°	6.4	6.4	6.4	5.1	3.8	2.6	2.6	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)