

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: P248173

Luminaire Tested: **LD8B200D010 ER8B200840 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248173  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200840 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19199.0 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

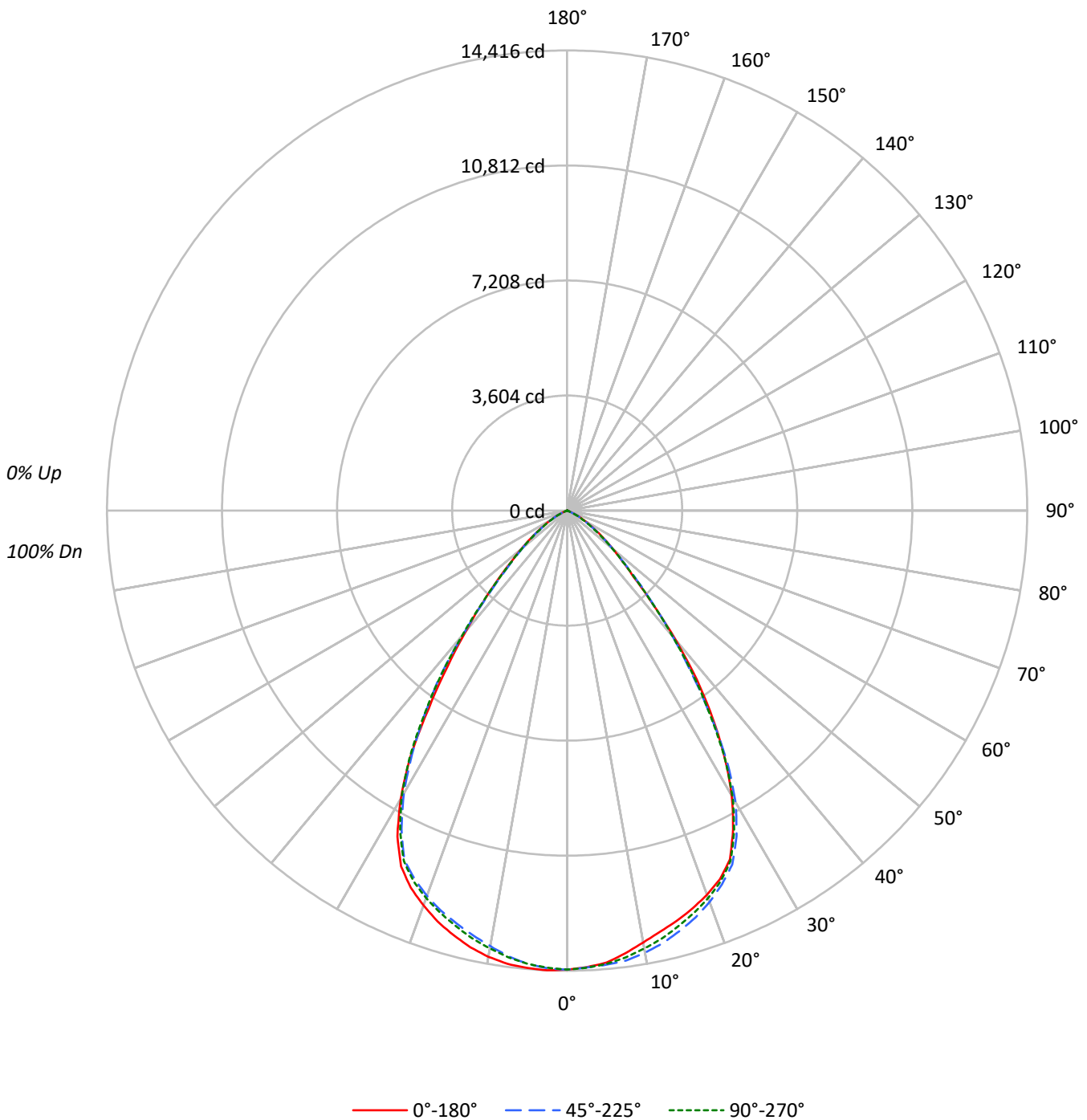
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84					84			
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58					58			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42					42			

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

	0°	90°	180°
0°	443420	443420	443420
5°	439997	441226	445235
10°	430099	436183	444465
15°	424578	430276	439518
20°	420246	423935	431873
25°	410399	412063	418633
30°	367347	369231	371300
35°	299377	293354	284692
40°	212303	206394	198786
45°	129441	131634	134286
50°	89431	87785	89623
55°	60702	56439	58213
60°	39384	34327	36041
65°	20744	16497	17752
70°	5482	4652	4174
75°	941	1894	1108
80°	0	0	462
85°	920	920	920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1352.1	7.0
10°-20°	3808.9	19.8
20°-30°	5492.5	28.6
30°-40°	4823.7	25.1
40°-50°	2439.1	12.7
50°-60°	998.4	5.2
60°-70°	262.5	1.4
70°-80°	18.5	0.1
80°-90°	3.3	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°	10653.5	55.5
0°-40°	15477.2	80.6
0°-60°	18914.7	98.5
0°-90°	19199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19199.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	14380	14380	14380	14380	14380	
5°	14214	14279	14254	14254	14384	###
15°	13300	13629	13478	13391	13768	3753
25°	12062	12235	12111	12067	12304	5449
35°	7953	7817	7793	7760	7563	4903
45°	2968	3107	3018	2942	3079	2449
55°	1129	1084	1050	1047	1083	1043
65°	284	252	226	223	243	291
75°	8	5	16	5	9	20
85°	3	3	3	1	3	5
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°	14379.8	14379.8	14379.8	14379.8	14379.8	14379.8	14379.8	14379.8	14379.8
2.5°	14313.7	14383.7	14321.6	14358.6	14333.5	14292.5	14349.4	14322.9	14415.5
5°	14214.5	14299.1	14279.3	14325.6	14254.2	14178.8	14254.2	14260.8	14383.7
7.5°	13988.4	14133.8	14217.1	14272.7	14115.3	13992.4	14082.3	14162.9	14321.6
10°	13735.9	13911.7	14062.4	14148.4	13930.2	13750.4	13857.5	13995.0	14194.7
12.5°	13503.2	13697.5	13876.0	13959.3	13729.3	13527.0	13628.8	13799.3	14013.5
15°	13299.6	13459.5	13628.8	13714.7	13478.1	13286.3	13390.8	13548.1	13767.6
17.5°	13066.9	13217.6	13367.0	13434.4	13214.9	13048.4	13143.6	13278.4	13496.6
20°	12806.4	12936.0	13049.7	13129.0	12918.8	12760.1	12846.1	12971.7	13160.7
22.5°	12501.0	12598.8	12672.9	12744.3	12573.7	12416.4	12490.4	12589.6	12789.2
25°	12062.0	12161.2	12235.2	12315.9	12110.9	11976.1	12067.3	12109.6	12304.0
27.5°	11258.2	11383.8	11494.8	11566.2	11332.2	11215.8	11239.6	11309.7	11516.0
30°	10316.8	10377.6	10546.8	10568.0	10369.7	10167.4	10232.2	10306.2	10427.8
32.5°	9198.2	9232.6	9330.5	9341.0	9192.9	9036.9	9038.3	9005.2	9128.2
35°	7952.8	7874.8	7816.6	7856.3	7792.8	7820.6	7759.7	7607.7	7562.7
37.5°	6666.3	6616.1	6360.9	6341.1	6489.1	6579.0	6519.6	6181.1	6157.3
40°	5274.1	5217.2	5122.0	5107.5	5127.3	5178.9	5069.1	4968.7	4938.3
42.5°	3946.6	3977.0	4007.5	4035.2	3978.4	3867.3	3862.0	3843.5	3914.9
45°	2968.2	3033.0	3107.1	3144.1	3018.5	2932.5	2941.8	2982.8	3079.3
47.5°	2346.8	2360.0	2387.8	2419.5	2345.5	2235.8	2264.9	2331.0	2373.3
50°	1864.2	1877.5	1869.5	1865.6	1829.9	1763.8	1804.7	1853.7	1868.2
52.5°	1470.2	1453.0	1438.5	1429.3	1406.8	1380.3	1388.3	1429.3	1451.7
55°	1129.1	1115.9	1084.2	1070.9	1049.8	1043.2	1047.1	1078.9	1082.8
57.5°	848.8	830.3	798.6	773.5	774.8	764.2	769.5	792.0	803.9
60°	638.6	626.7	571.2	575.1	556.6	554.0	565.9	579.1	584.4
62.5°	441.6	445.6	403.3	398.0	388.7	390.0	398.0	408.5	409.9
65°	284.3	267.1	252.5	242.0	226.1	218.2	223.4	252.5	243.3
67.5°	111.1	117.7	95.2	111.1	103.1	87.3	100.5	112.4	107.1
70°	60.8	62.1	51.6	48.9	51.6	47.6	54.2	60.8	46.3
72.5°	38.3	38.3	27.8	27.8	35.7	23.8	27.8	43.6	34.4
75°	7.9	9.3	5.3	2.6	15.9	7.9	5.3	15.9	9.3
77.5°	0.0	9.3	0.0	0.0	0.0	0.0	2.6	2.6	2.6
80°	0.0	0.0	0.0	4.0	0.0	0.0	0.0	2.6	2.6
82.5°	0.0	2.6	0.0	0.0	0.0	0.0	0.0	2.6	0.0
85°	2.6	10.6	2.6	0.0	2.6	2.6	1.3	7.9	2.6
87.5°	17.2	7.9	1.3	7.9	6.6	7.9	9.3	7.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)