

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: P247780

Luminaire Tested: **LD8B200D010 ER8B200850 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247780  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200850 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23090.0 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

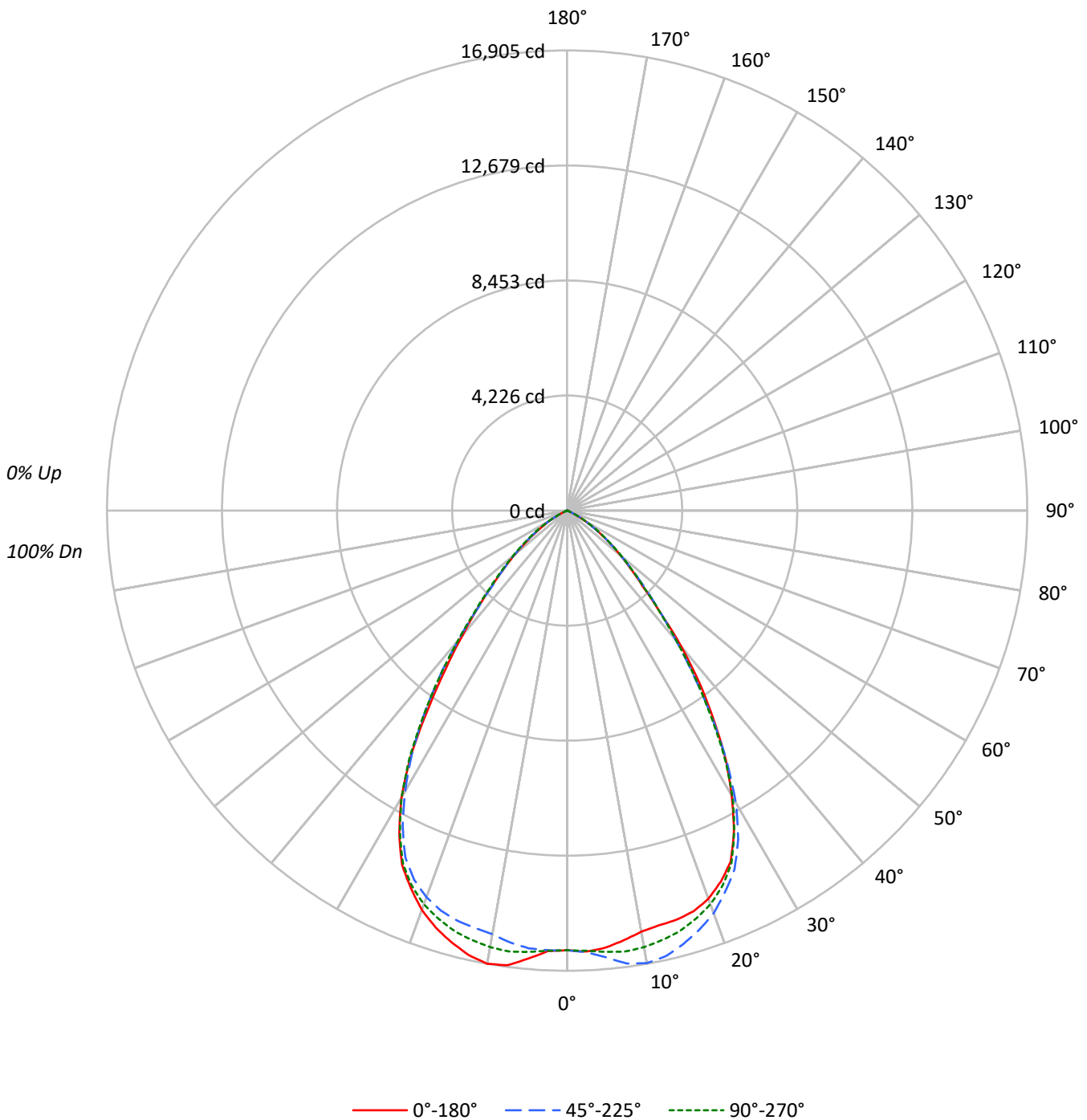
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92					92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83					83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76					76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63					63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53					53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48					48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45					45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

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

	0°	90°	180°
0°	497976	497976	497976
5°	499002	503716	511476
10°	491815	509922	529336
15°	496781	510463	524108
20°	498041	504985	512109
25°	483915	485980	488549
30°	430396	432892	433277
35°	353483	345871	335421
40°	262033	251615	240437
45°	170359	174532	168889
50°	122997	125132	119764
55°	81965	84357	76599
60°	45971	49634	43479
65°	14462	18000	15148
70°	3769	4373	3525
75°	2407	1763	2895
80°	479	1438	0
85°	5236	1415	1911



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1556.2	6.7
10°-20°	4507.1	19.5
20°-30°	6464.9	28.0
30°-40°	5704.9	24.7
40°-50°	3158.7	13.7
50°-60°	1391.9	6.0
60°-70°	281.3	1.2
70°-80°	21.1	0.1
80°-90°	3.8	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°	12528.3	54.3
0°-40°	18233.2	79.0
0°-60°	22783.8	98.7
0°-90°	23090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23090.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	16149	16149	16149	16149	16149	
5°	16121	16475	16273	16141	16524	###
15°	15561	16487	15990	15599	16417	4390
25°	14223	14542	14283	14069	14359	6425
35°	9390	9255	9188	9195	8910	5824
45°	3906	4072	4002	3853	3873	3182
55°	1525	1518	1569	1488	1425	1397
65°	198	213	247	224	208	273
75°	20	20	15	16	24	20
85°	15	8	4	12	5	7
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°	16149.0	16149.0	16149.0	16149.0	16149.0	16149.0	16149.0	16149.0	16149.0
2.5°	16216.4	16149.0	16238.0	16182.7	16186.7	16103.2	16169.2	16232.6	16197.5
5°	16120.7	16182.7	16475.2	16467.1	16273.0	16020.9	16140.9	16429.4	16523.7
7.5°	15922.5	16146.3	16781.2	16839.2	16340.4	15809.3	16004.8	16606.0	16845.9
10°	15706.9	16029.0	16882.3	16995.5	16285.2	15585.5	15806.6	16564.2	16905.2
12.5°	15603.1	15914.5	16765.0	16874.2	16158.4	15477.7	15701.5	16405.1	16721.9
15°	15561.3	15795.8	16487.4	16587.1	15989.9	15417.0	15599.0	16174.6	16417.3
17.5°	15434.6	15596.3	16143.6	16207.0	15723.0	15268.8	15411.6	15852.4	16064.1
20°	15177.1	15284.9	15744.6	15778.3	15388.7	15003.2	15113.7	15461.5	15605.8
22.5°	14752.5	14823.9	15163.6	15175.7	14921.0	14586.7	14678.3	14950.6	15004.6
25°	14222.7	14229.5	14542.2	14484.2	14283.4	13973.3	14069.0	14302.2	14358.9
27.5°	13269.7	13292.6	13609.4	13532.5	13295.3	13025.7	13085.0	13298.0	13354.6
30°	12087.5	12215.5	12398.9	12361.1	12157.6	11886.6	11898.8	12107.7	12168.4
32.5°	10844.6	10806.9	10901.3	10872.9	10767.8	10553.5	10624.9	10678.8	10693.7
35°	9390.1	9359.1	9255.3	9124.6	9187.9	9271.5	9194.7	9076.1	8910.3
37.5°	7992.3	7818.4	7616.2	7480.0	7705.2	7792.8	7717.3	7459.8	7326.4
40°	6509.5	6326.1	6217.0	6183.3	6250.7	6315.4	6230.4	6105.1	5973.0
42.5°	5019.9	5018.6	5045.6	5038.8	4993.0	4900.0	4832.6	4886.5	4864.9
45°	3906.5	3967.2	4072.3	4089.8	4002.2	3866.1	3852.6	3903.8	3872.8
47.5°	3179.9	3201.5	3239.2	3293.2	3243.3	3174.5	3139.5	3155.7	3127.4
50°	2563.9	2569.3	2586.8	2627.2	2608.4	2561.2	2527.5	2507.3	2496.5
52.5°	2013.9	2001.8	2015.3	2028.7	2054.3	2023.3	1995.0	1951.9	1918.2
55°	1524.6	1515.1	1517.8	1528.6	1569.1	1534.0	1488.2	1459.9	1424.8
57.5°	1106.7	1075.7	1082.4	1118.8	1156.6	1141.8	1101.3	1055.5	1012.3
60°	745.4	738.7	737.4	776.4	804.8	799.4	753.5	719.8	705.0
62.5°	440.8	436.8	447.5	465.1	498.8	474.5	443.5	426.0	420.6
65°	198.2	207.6	213.0	226.5	246.7	241.3	223.8	204.9	207.6
67.5°	86.3	66.1	74.1	83.6	78.2	82.2	72.8	76.8	74.1
70°	41.8	44.5	41.8	52.6	48.5	51.2	41.8	49.9	39.1
72.5°	29.7	25.6	32.4	37.7	32.4	37.7	33.7	25.6	20.2
75°	20.2	12.1	20.2	12.1	14.8	21.6	16.2	21.6	24.3
77.5°	2.7	9.4	4.0	5.4	2.7	6.7	6.7	4.0	12.1
80°	2.7	4.0	2.7	5.4	8.1	1.3	5.4	12.1	0.0
82.5°	9.4	0.0	1.3	0.0	1.3	2.7	0.0	2.7	0.0
85°	14.8	4.0	8.1	18.9	4.0	8.1	12.1	5.4	5.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	0.0	4.0	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)