

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: P248101

Luminaire Tested: **LD8B200D010 ER8B200840 8LBW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248101  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200840 8LBW0WH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22065.0 lumens  
Efficiency: N/A  
Efficacy: 98.8 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

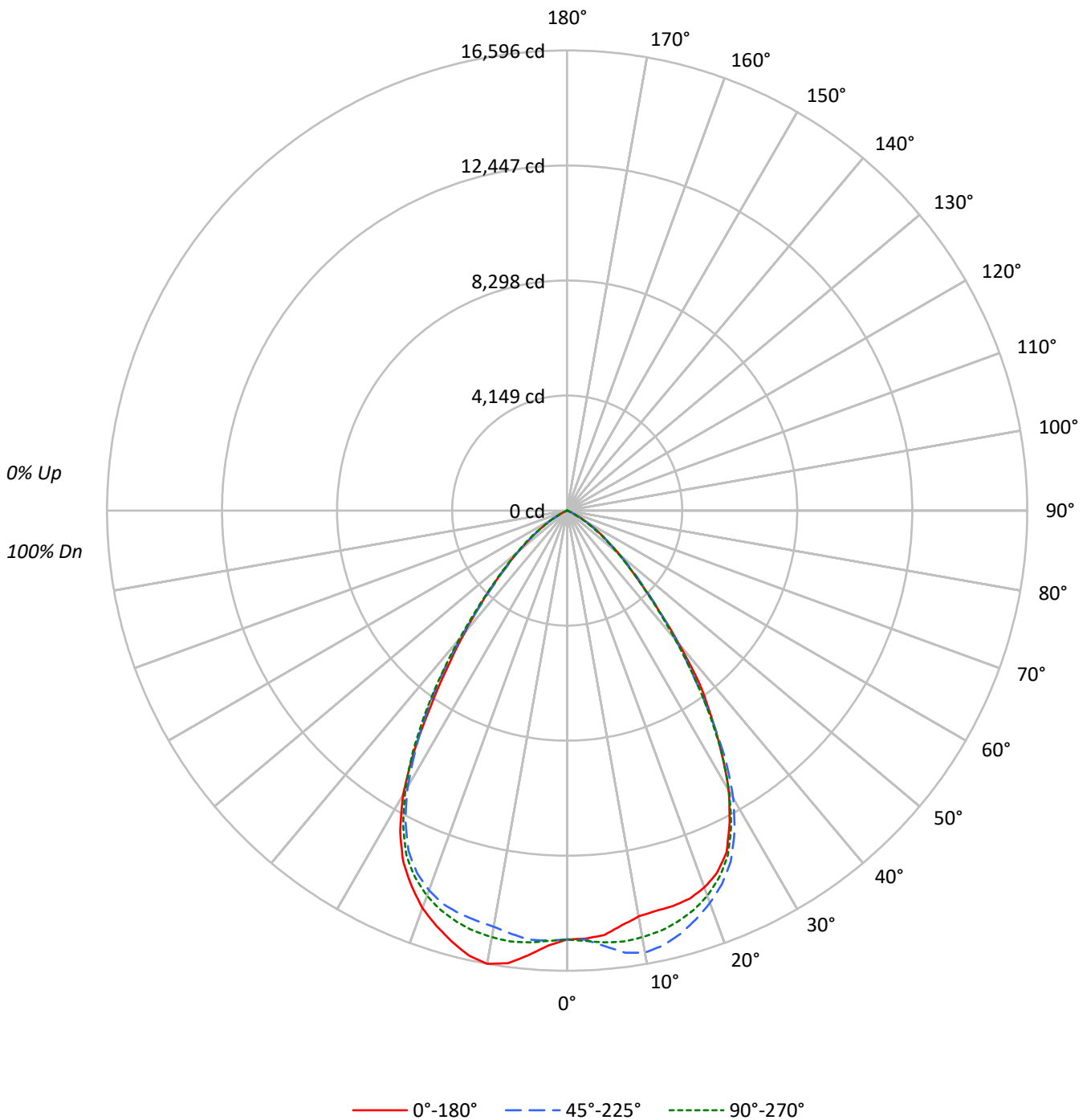
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	81	88	84	80	86	82	79	83	80	78	76					76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69					69			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63					63			
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58					58			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49					49			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45					45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42					42			

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

	0°	90°	180°
0°	476995	476995	476995
5°	475582	483890	498336
10°	465350	489197	519664
15°	471197	490316	513573
20°	474720	485047	500752
25°	462565	466882	475834
30°	414925	416007	420996
35°	340872	335843	321312
40°	251837	243693	231239
45°	167027	165758	163281
50°	118162	113024	110361
55°	78970	71858	67949
60°	44435	38570	35141
65°	17169	12346	10222
70°	5004	2858	2380
75°	1418	786	941
80°	0	0	0
85°	920	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1496.3	6.8
10°-20°	4339.4	19.7
20°-30°	6231.6	28.2
30°-40°	5508.4	25.0
40°-50°	3015.2	13.7
50°-60°	1241.3	5.6
60°-70°	222.4	1.0
70°-80°	9.6	0.0
80°-90°	0.8	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°	12067.3	54.7
0°-40°	17575.6	79.7
0°-60°	21832.2	98.9
0°-90°	22065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22065.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	15469	15469	15469	15469	15469	
5°	15364	15777	15632	15537	16099	###
15°	14760	15803	15359	15042	16087	4169
25°	13595	13963	13722	13541	13985	6150
35°	9055	8974	8922	8800	8536	5617
45°	3830	3942	3801	3638	3744	3083
55°	1469	1400	1337	1293	1264	1331
65°	235	184	169	136	140	274
75°	12	5	7	8	8	18
85°	3	3	0	8	0	1
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°	15468.6	15468.6	15468.6	15468.6	15468.6	15468.6	15468.6	15468.6	15468.6
2.5°	15448.7	15476.5	15489.7	15559.8	15536.0	15503.0	15521.5	15578.3	15701.3
5°	15364.1	15512.2	15776.6	15866.5	15632.5	15428.9	15537.3	15848.0	16099.2
7.5°	15085.2	15458.0	16083.4	16219.5	15677.5	15209.4	15398.5	16068.8	16465.4
10°	14861.7	15324.5	16183.8	16386.1	15623.3	15017.7	15238.5	16058.2	16596.3
12.5°	14786.4	15213.4	16056.9	16285.6	15532.0	14950.3	15144.7	15903.5	16429.7
15°	14759.9	15102.4	15803.1	15986.8	15358.8	14884.2	15041.5	15651.0	16087.3
17.5°	14678.0	14933.1	15455.4	15604.8	15120.9	14753.3	14875.0	15348.3	15698.6
20°	14466.4	14683.3	15058.7	15163.2	14781.1	14492.9	14570.9	14926.5	15259.7
22.5°	14135.9	14276.0	14580.1	14630.4	14327.6	14097.6	14146.5	14412.2	14655.5
25°	13595.2	13693.0	13962.7	13975.9	13722.1	13521.1	13541.0	13763.1	13985.2
27.5°	12685.6	12870.7	13069.0	13125.8	12807.2	12571.9	12632.7	12780.7	13041.2
30°	11653.0	11789.2	11983.5	11939.9	11683.4	11471.9	11497.0	11629.2	11823.5
32.5°	10365.3	10509.4	10608.5	10518.6	10389.1	10200.0	10143.2	10200.0	10252.9
35°	9055.1	9104.0	8974.4	8922.9	8921.5	8863.4	8799.9	8628.0	8535.5
37.5°	7804.4	7651.0	7418.3	7319.1	7432.9	7574.3	7383.9	7159.2	7042.8
40°	6256.2	6260.1	6114.7	6011.6	6053.9	6006.3	5923.0	5778.9	5744.5
42.5°	4890.5	4905.0	4951.3	4893.1	4791.3	4636.6	4590.3	4596.9	4698.7
45°	3830.1	3859.2	3942.5	3934.6	3801.0	3703.2	3638.4	3729.6	3744.2
47.5°	3046.1	3087.1	3121.5	3118.8	3015.7	2917.9	2888.8	2906.0	2941.7
50°	2463.1	2459.1	2432.7	2398.3	2356.0	2336.2	2303.1	2300.5	2300.5
52.5°	1897.2	1903.8	1850.9	1853.6	1833.8	1778.2	1763.7	1734.6	1734.6
55°	1468.9	1442.4	1400.1	1359.1	1336.6	1298.3	1293.0	1262.6	1263.9
57.5°	1043.1	1019.3	969.1	944.0	926.8	916.2	893.7	869.9	859.4
60°	720.5	700.7	672.9	647.8	625.4	620.1	598.9	575.1	569.8
62.5°	435.0	429.7	380.8	371.5	354.3	346.4	331.8	316.0	317.3
65°	235.3	201.0	183.8	173.2	169.2	148.1	136.2	133.5	140.1
67.5°	63.5	63.5	51.6	48.9	48.9	35.7	41.0	39.7	51.6
70°	55.5	39.7	34.4	27.8	31.7	18.5	34.4	27.8	26.4
72.5°	29.1	15.9	13.2	13.2	14.5	9.3	21.2	11.9	9.3
75°	11.9	7.9	5.3	2.6	6.6	6.6	7.9	2.6	7.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	4.0	2.6	0.0	0.0	0.0	7.9	0.0	0.0
87.5°	0.0	2.6	1.3	0.0	0.0	0.0	2.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)