

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: P247774

Luminaire Tested: **LD8B200D010 ER8B200835 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247774  
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 ER8B200835 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22796.0 lumens  
Efficiency: N/A  
Efficacy: 102.1 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

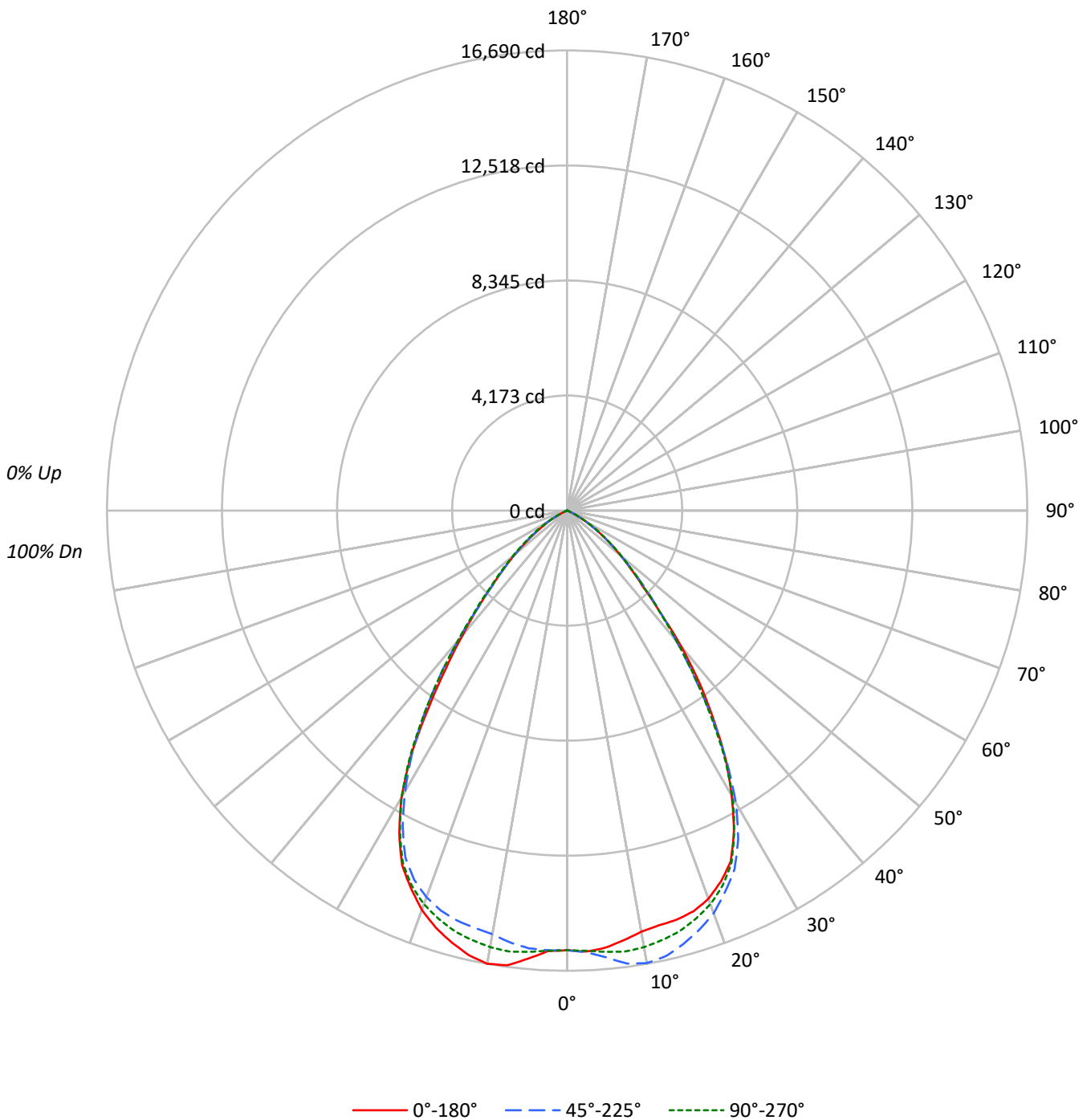
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	491636	491636	491636
5°	492647	497302	504967
10°	485552	503428	522598
15°	490453	503963	517432
20°	491701	498557	505589
25°	477753	479791	482326
30°	424916	427380	427758
35°	348984	341470	331148
40°	258696	248411	237374
45°	168192	172308	166740
50°	121429	123540	118239
55°	80922	83282	75626
60°	45391	48999	42924
65°	14272	17767	14951
70°	3724	4319	3480
75°	2383	1739	2859
80°	479	1421	0
85°	5166	1415	1875



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1536.4	6.7
10°-20°	4449.7	19.5
20°-30°	6382.6	28.0
30°-40°	5632.2	24.7
40°-50°	3118.5	13.7
50°-60°	1374.2	6.0
60°-70°	277.7	1.2
70°-80°	20.8	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°	12368.8	54.3
0°-40°	18001.0	79.0
0°-60°	22493.7	98.7
0°-90°	22796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22796.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	15943	15943	15943	15943	15943	
5°	15915	16265	16066	15935	16313	###
15°	15363	16277	15786	15400	16208	4334
25°	14042	14357	14102	13890	14176	6343
35°	9271	9138	9071	9078	8797	5750
45°	3857	4020	3951	3804	3824	3141
55°	1505	1498	1549	1469	1407	1380
65°	196	210	244	221	205	270
75°	20	20	15	16	24	19
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°	15943.4	15943.4	15943.4	15943.4	15943.4	15943.4	15943.4	15943.4	15943.4
2.5°	16009.9	15943.4	16031.2	15976.7	15980.6	15898.1	15963.3	16025.9	15991.3
5°	15915.4	15976.7	16265.4	16257.5	16065.8	15817.0	15935.4	16220.2	16313.4
7.5°	15719.8	15940.7	16567.5	16624.8	16132.4	15608.0	15801.0	16394.5	16631.4
10°	15506.9	15824.9	16667.4	16779.1	16077.8	15387.1	15605.4	16353.3	16690.0
12.5°	15404.4	15711.8	16551.6	16659.4	15952.7	15280.6	15501.5	16196.2	16509.0
15°	15363.1	15594.7	16277.4	16375.9	15786.3	15220.7	15400.4	15968.7	16208.2
17.5°	15238.0	15397.7	15938.1	16000.6	15522.8	15074.3	15215.4	15650.6	15859.5
20°	14983.9	15090.3	15544.1	15577.4	15192.8	14812.2	14921.3	15264.7	15407.1
22.5°	14564.6	14635.2	14970.5	14982.5	14731.0	14400.9	14491.4	14760.3	14813.5
25°	14041.6	14048.3	14357.0	14299.8	14101.5	13795.4	13889.9	14120.1	14176.0
27.5°	13100.7	13123.3	13436.1	13360.2	13126.0	12859.8	12918.4	13128.7	13184.6
30°	11933.6	12060.0	12241.0	12203.7	12002.8	11735.3	11747.3	11953.5	12013.4
32.5°	10706.6	10669.3	10762.4	10734.5	10630.7	10419.1	10489.6	10542.9	10557.5
35°	9270.6	9240.0	9137.5	9008.4	9071.0	9153.5	9077.6	8960.5	8796.8
37.5°	7890.5	7718.8	7519.2	7384.8	7607.0	7693.5	7619.0	7364.8	7233.1
40°	6426.6	6245.6	6137.8	6104.5	6171.1	6235.0	6151.1	6027.3	5896.9
42.5°	4956.0	4954.7	4981.3	4974.7	4929.4	4837.6	4771.0	4824.3	4803.0
45°	3856.8	3916.6	4020.4	4037.7	3951.2	3816.8	3803.5	3854.1	3823.5
47.5°	3139.4	3160.7	3198.0	3251.2	3202.0	3134.1	3099.5	3115.5	3087.5
50°	2531.2	2536.6	2553.9	2593.8	2575.2	2528.6	2495.3	2475.3	2464.7
52.5°	1988.3	1976.3	1989.6	2002.9	2028.2	1997.6	1969.6	1927.0	1893.8
55°	1505.2	1495.9	1498.5	1509.2	1549.1	1514.5	1469.2	1441.3	1406.7
57.5°	1092.6	1062.0	1068.7	1104.6	1141.9	1127.2	1087.3	1042.0	999.5
60°	736.0	729.3	728.0	766.6	794.5	789.2	743.9	710.7	696.0
62.5°	435.2	431.2	441.8	459.1	492.4	468.5	437.8	420.5	415.2
65°	195.6	204.9	210.3	223.6	243.5	238.2	220.9	202.3	204.9
67.5°	85.2	65.2	73.2	82.5	77.2	81.2	71.9	75.9	73.2
70°	41.3	43.9	41.3	51.9	47.9	50.6	41.3	49.2	38.6
72.5°	29.3	25.3	31.9	37.3	31.9	37.3	33.3	25.3	20.0
75°	20.0	12.0	20.0	12.0	14.6	21.3	16.0	21.3	24.0
77.5°	2.7	9.3	4.0	5.3	2.7	6.7	6.7	4.0	12.0
80°	2.7	4.0	2.7	5.3	8.0	1.3	5.3	12.0	0.0
82.5°	9.3	0.0	1.3	0.0	1.3	2.7	0.0	2.7	0.0
85°	14.6	4.0	8.0	18.6	4.0	8.0	12.0	5.3	5.3
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	0.0	4.0	8.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)