

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: P247939

Luminaire Tested: **LD8B200D010 ER8B200950 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247939  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200950 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19965.0 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

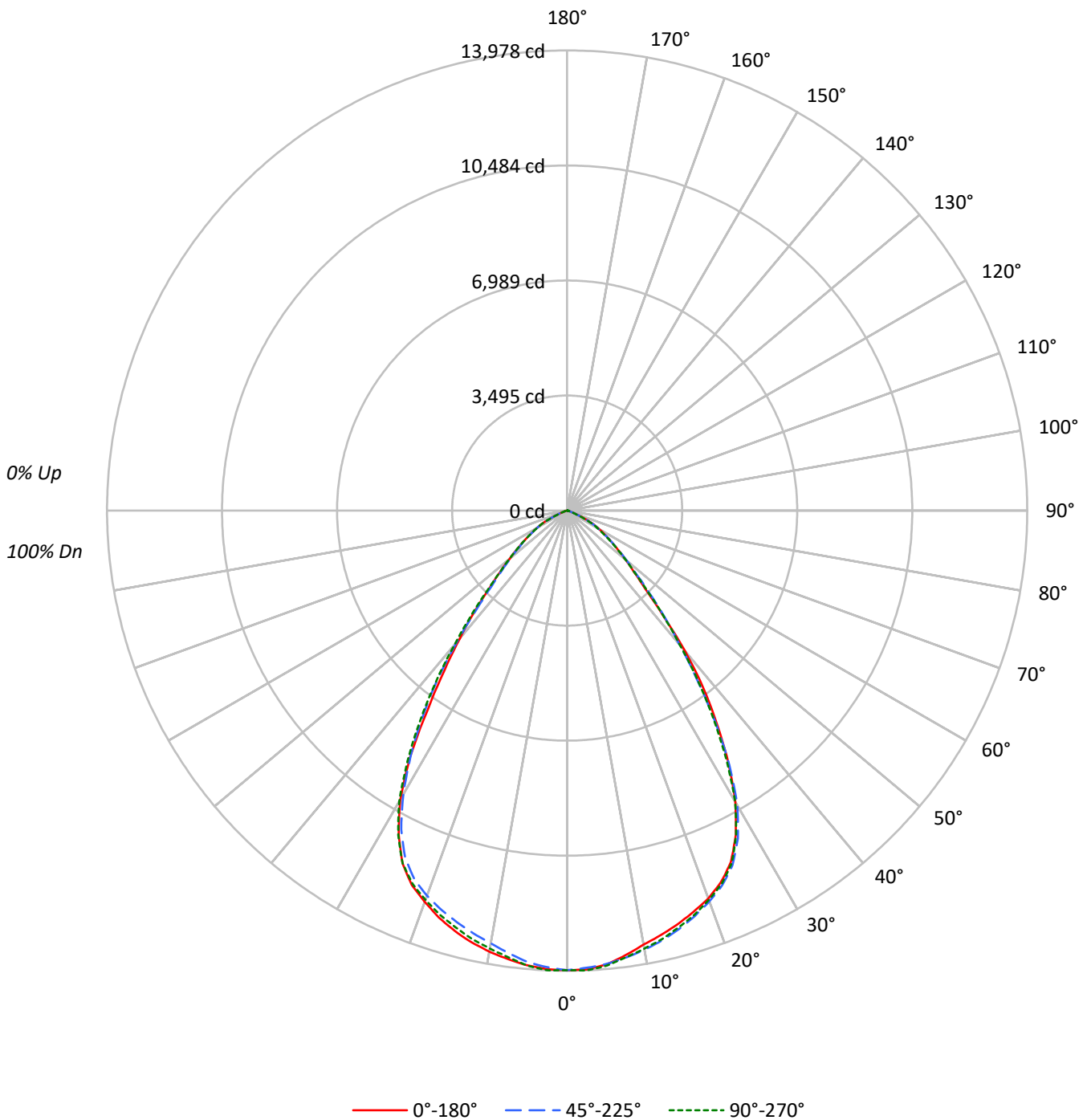
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74					74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61					61			
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55					55			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

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

	0°	90°	180°
0°	430512	430512	430512
5°	428281	429497	429268
10°	419130	423013	425972
15°	415023	418353	421839
20°	411465	412955	415009
25°	400651	402196	402529
30°	363658	363306	360860
35°	299414	292717	278070
40°	223888	213809	204128
45°	144983	148786	145410
50°	110980	110390	109920
55°	86959	85379	84653
60°	69178	65391	66304
65°	45399	40116	40561
70°	16265	14939	15489
75°	5850	7160	5850
80°	3711	5239	4351
85°	885	2618	1734



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1307.7	6.5
10°-20°	3686.6	18.5
20°-30°	5345.0	26.8
30°-40°	4804.4	24.1
40°-50°	2707.4	13.6
50°-60°	1442.5	7.2
60°-70°	576.5	2.9
70°-80°	76.8	0.4
80°-90°	18.1	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°	10339.3	51.8
0°-40°	15143.7	75.9
0°-60°	19293.6	96.6
0°-90°	19965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19965.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	13961	13961	13961	13961	13961	
5°	13836	13824	13875	13766	13868	###
15°	13000	13151	13105	12943	13214	3668
25°	11776	11886	11821	11638	11831	5345
35°	7954	7840	7776	7668	7387	4935
45°	3325	3505	3412	3251	3334	2731
55°	1618	1622	1588	1551	1575	1474
65°	622	593	550	534	556	616
75°	49	63	60	59	49	73
85°	2	15	7	21	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°	13961.2	13961.2	13961.2	13961.2	13961.2	13961.2	13961.2	13961.2	13961.2
2.5°	13951.4	13921.9	13899.8	13941.6	13978.4	13877.7	13885.1	13929.3	13944.0
5°	13836.0	13809.0	13823.7	13858.1	13875.3	13748.9	13766.1	13840.9	13867.9
7.5°	13620.0	13640.9	13693.6	13737.8	13686.3	13537.8	13562.3	13691.2	13744.0
10°	13385.6	13434.7	13545.1	13596.7	13509.6	13319.3	13347.6	13520.6	13604.1
12.5°	13199.1	13253.1	13368.4	13407.7	13330.4	13125.4	13154.9	13334.1	13433.5
15°	13000.3	13049.3	13151.2	13183.1	13104.6	12915.6	12942.6	13114.4	13213.8
17.5°	12775.7	12818.6	12909.4	12938.9	12870.2	12670.1	12713.1	12872.6	12959.8
20°	12538.8	12569.5	12633.3	12650.5	12584.2	12433.3	12452.9	12590.3	12646.8
22.5°	12216.0	12255.3	12314.2	12332.6	12271.3	12105.6	12124.0	12259.0	12320.4
25°	11775.5	11833.1	11885.9	11909.2	11820.9	11601.2	11638.0	11753.4	11830.7
27.5°	11091.9	11138.5	11231.8	11234.2	11112.7	10884.5	10915.2	11063.7	11083.3
30°	10213.2	10256.1	10338.3	10319.9	10203.3	9932.1	9956.7	10101.5	10134.6
32.5°	9136.9	9152.8	9174.9	9168.8	9026.4	8898.8	8848.5	8865.6	8877.9
35°	7953.8	7982.0	7839.7	7762.4	7775.9	7786.9	7667.9	7491.1	7386.8
37.5°	6807.6	6672.6	6497.1	6436.9	6548.6	6585.4	6477.4	6213.6	6116.6
40°	5561.9	5441.6	5302.9	5314.0	5311.5	5337.3	5201.1	5104.1	5071.0
42.5°	4280.6	4281.9	4372.7	4310.1	4297.8	4118.6	4065.9	4119.9	4178.8
45°	3324.6	3435.1	3505.0	3486.6	3411.8	3251.0	3251.0	3345.5	3334.4
47.5°	2736.8	2776.0	2828.8	2825.1	2771.1	2653.3	2672.9	2738.0	2771.1
50°	2313.4	2330.5	2355.1	2334.2	2301.1	2227.5	2226.2	2271.6	2291.3
52.5°	1935.4	1945.2	1939.1	1928.0	1909.6	1870.3	1858.1	1896.1	1901.0
55°	1617.5	1635.9	1622.4	1591.7	1588.1	1552.5	1551.2	1581.9	1574.6
57.5°	1347.5	1329.1	1310.7	1284.9	1281.2	1270.2	1282.5	1287.4	1280.0
60°	1121.7	1122.9	1087.3	1062.8	1060.3	1044.4	1061.6	1075.1	1075.1
62.5°	903.3	898.3	876.3	839.4	845.6	839.4	846.8	849.3	838.2
65°	622.2	623.4	592.8	548.6	549.8	544.9	533.9	551.0	555.9
67.5°	331.4	328.9	305.6	289.6	283.5	285.9	298.2	301.9	288.4
70°	180.4	174.3	179.2	162.0	165.7	159.5	165.7	175.5	171.8
72.5°	92.0	98.2	88.4	81.0	90.8	89.6	104.3	95.7	85.9
75°	49.1	52.8	62.6	57.7	60.1	57.7	58.9	55.2	49.1
77.5°	35.6	39.3	45.4	44.2	43.0	40.5	45.4	50.3	40.5
80°	20.9	25.8	28.2	33.1	29.5	33.1	38.0	30.7	24.5
82.5°	13.5	20.9	20.9	22.1	31.9	20.9	34.4	30.7	24.5
85°	2.5	3.7	14.7	8.6	7.4	22.1	20.9	16.0	4.9
87.5°	0.0	8.6	19.6	9.8	16.0	14.7	20.9	22.1	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)