

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: P248186

Luminaire Tested: **LD8B150D010 ER8B150940 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248186  
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: LD8B150D010 ER8B150940 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12934.0 lumens  
Efficiency: N/A  
Efficacy: 81.6 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

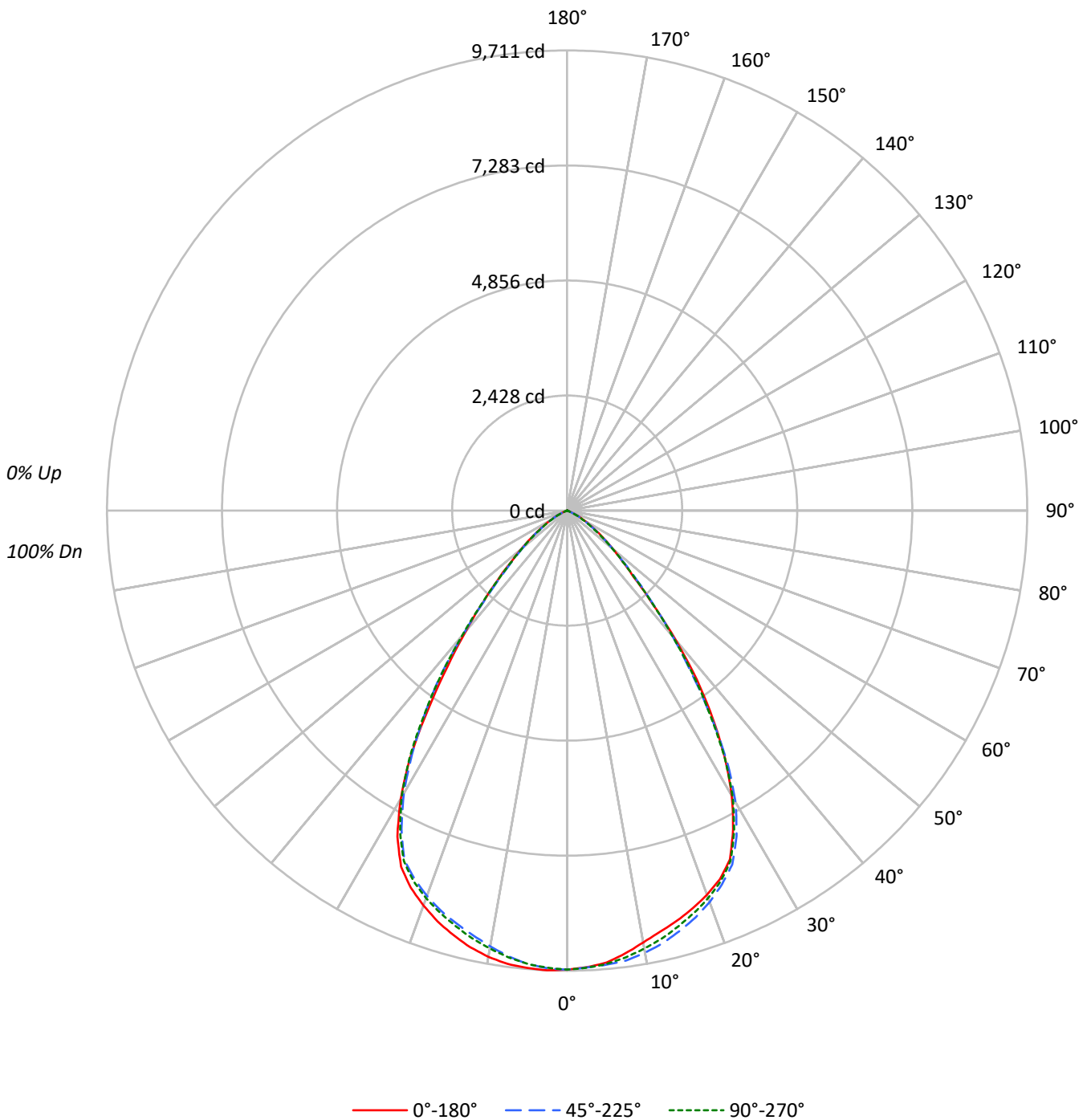
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	298724	298724	298724
5°	296417	297246	299945
10°	289749	293848	299427
15°	286030	289868	296096
20°	283111	285595	290944
25°	276480	277599	282026
30°	247474	248741	250137
35°	201683	197628	191793
40°	143022	139045	133917
45°	87201	88679	90467
50°	60249	59136	60379
55°	40896	38020	39219
60°	26532	23127	24281
65°	13973	11113	11959
70°	3697	3129	2813
75°	631	1275	739
80°	0	0	320
85°	637	637	637



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	910.9	7.0
10°-20°	2566.0	19.8
20°-30°	3700.2	28.6
30°-40°	3249.6	25.1
40°-50°	1643.2	12.7
50°-60°	672.6	5.2
60°-70°	176.8	1.4
70°-80°	12.5	0.1
80°-90°	2.2	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°	7177.1	55.5
0°-40°	10426.7	80.6
0°-60°	12742.5	98.5
0°-90°	12934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12934.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9687	9687	9687	9687	9687	
5°	9576	9620	9603	9603	9690	903
15°	8960	9182	9080	9021	9275	2528
25°	8126	8243	8159	8130	8289	3671
35°	5358	5266	5250	5228	5095	3303
45°	2000	2093	2034	1982	2074	1650
55°	761	730	707	705	730	703
65°	192	170	152	150	164	196
75°	5	4	11	4	6	13
85°	2	2	2	1	2	4
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°	9687.4	9687.4	9687.4	9687.4	9687.4	9687.4	9687.4	9687.4	9687.4
2.5°	9642.8	9690.0	9648.2	9673.1	9656.2	9628.6	9666.9	9649.1	9711.4
5°	9576.0	9633.0	9619.7	9650.9	9602.8	9552.0	9602.8	9607.2	9690.0
7.5°	9423.7	9521.7	9577.8	9615.2	9509.2	9426.4	9487.0	9541.3	9648.2
10°	9253.6	9372.1	9473.6	9531.5	9384.5	9263.4	9335.5	9428.2	9562.7
12.5°	9096.8	9227.8	9348.0	9404.1	9249.1	9112.9	9181.5	9296.4	9440.6
15°	8959.7	9067.4	9181.5	9239.3	9079.9	8950.8	9021.1	9127.1	9275.0
17.5°	8802.9	8904.4	9005.1	9050.5	8902.7	8790.4	8854.6	8945.4	9092.4
20°	8627.4	8714.7	8791.3	8844.8	8703.1	8596.3	8654.1	8738.8	8866.1
22.5°	8421.7	8487.6	8537.5	8585.6	8470.7	8364.7	8414.5	8481.4	8615.8
25°	8126.0	8192.8	8242.6	8297.0	8158.9	8068.1	8129.5	8158.0	8289.0
27.5°	7584.4	7669.0	7743.8	7791.9	7634.3	7555.9	7571.9	7619.1	7758.1
30°	6950.2	6991.2	7105.2	7119.5	6985.8	6849.6	6893.2	6943.1	7025.0
32.5°	6196.7	6219.8	6285.7	6292.9	6193.1	6088.0	6088.9	6066.6	6149.5
35°	5357.6	5305.1	5265.9	5292.6	5249.9	5268.6	5227.6	5125.2	5094.9
37.5°	4491.0	4457.1	4285.2	4271.9	4371.6	4432.2	4392.1	4164.1	4148.0
40°	3553.0	3514.7	3450.6	3440.8	3454.2	3488.9	3415.0	3347.3	3326.8
42.5°	2658.8	2679.3	2699.7	2718.5	2680.1	2605.3	2601.8	2589.3	2637.4
45°	1999.6	2043.3	2093.2	2118.1	2033.5	1975.6	1981.8	2009.4	2074.5
47.5°	1581.0	1589.9	1608.6	1630.0	1580.1	1506.2	1525.8	1570.3	1598.8
50°	1255.9	1264.8	1259.5	1256.8	1232.7	1188.2	1215.8	1248.8	1258.6
52.5°	990.5	978.9	969.1	962.9	947.7	929.9	935.2	962.9	978.0
55°	760.7	751.8	730.4	721.5	707.2	702.8	705.4	726.8	729.5
57.5°	571.8	559.4	538.0	521.1	522.0	514.8	518.4	533.5	541.6
60°	430.2	422.2	384.8	387.5	375.0	373.2	381.2	390.1	393.7
62.5°	297.5	300.2	271.7	268.1	261.9	262.8	268.1	275.2	276.1
65°	191.5	179.9	170.1	163.0	152.3	147.0	150.5	170.1	163.9
67.5°	74.8	79.3	64.1	74.8	69.5	58.8	67.7	75.7	72.1
70°	41.0	41.9	34.7	33.0	34.7	32.1	36.5	41.0	31.2
72.5°	25.8	25.8	18.7	18.7	24.0	16.0	18.7	29.4	23.2
75°	5.3	6.2	3.6	1.8	10.7	5.3	3.6	10.7	6.2
77.5°	0.0	6.2	0.0	0.0	0.0	0.0	1.8	1.8	1.8
80°	0.0	0.0	0.0	2.7	0.0	0.0	0.0	1.8	1.8
82.5°	0.0	1.8	0.0	0.0	0.0	0.0	0.0	1.8	0.0
85°	1.8	7.1	1.8	0.0	1.8	1.8	0.9	5.3	1.8
87.5°	11.6	5.3	0.9	5.3	4.5	5.3	6.2	5.3	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)