

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: P247485

Luminaire Tested: **LD8B120D010 ER8B120830 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247485  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120830 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10754.0 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

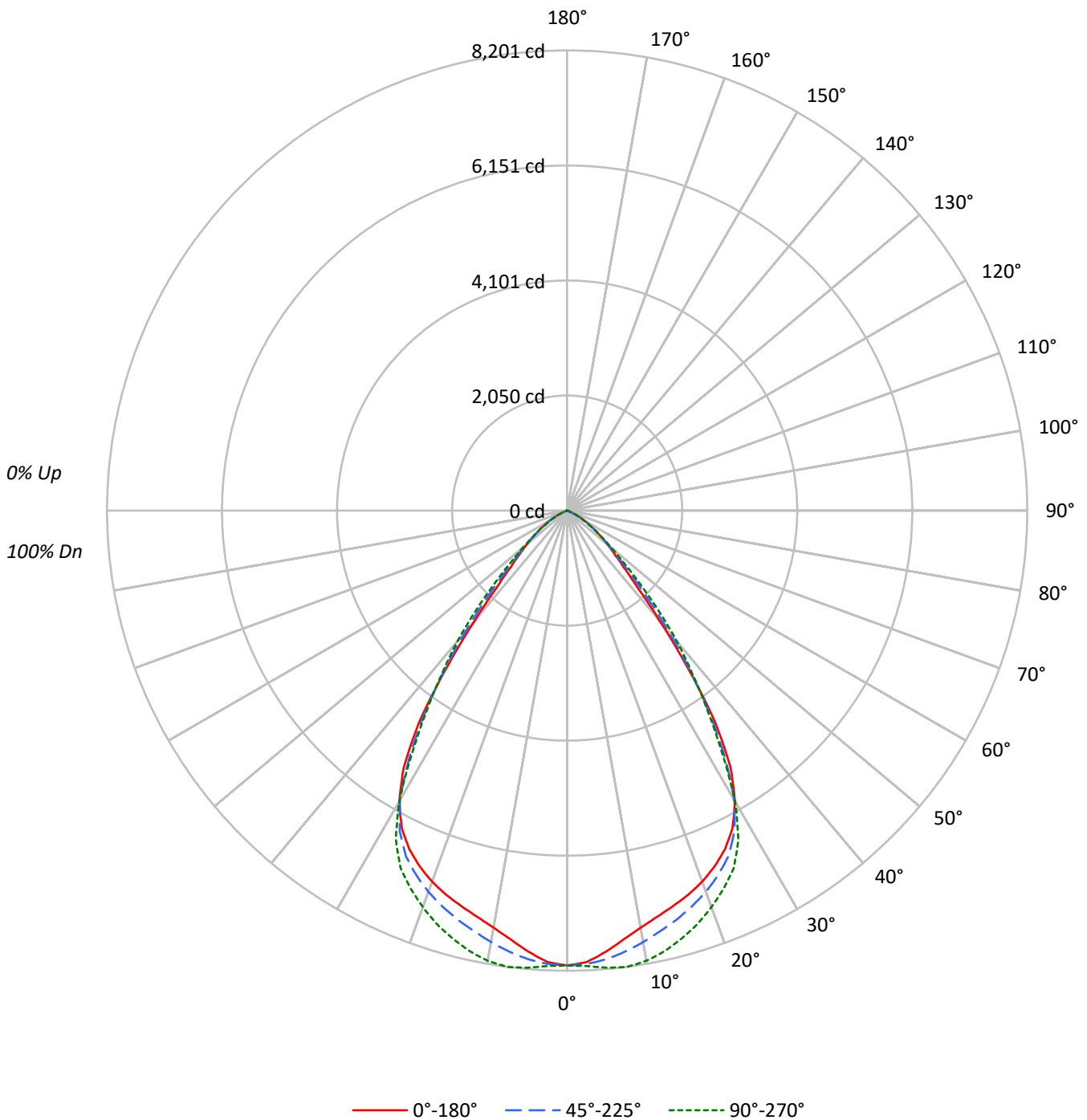
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	88	85	84					84			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	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	72	67	76	70	66	74	69	66	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53					53			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

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

	0°	45°	90°
0°	249996	249996	249996
5°	244327	248450	253186
10°	236243	244494	255137
15°	232899	240861	252031
20°	230941	237265	246794
25°	226485	231303	239064
30°	212907	212102	213110
35°	172990	167178	164618
40°	102700	113190	122601
45°	61467	69190	78579
50°	44783	45939	49335
55°	32445	31300	31988
60°	22017	20358	19569
65°	11061	10230	9719
70°	3065	2678	2425
75°	1180	846	846
80°	497	497	249
85°	495	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	760.1	7.1
10°-20°	2134.6	19.8
20°-30°	3102.5	28.9
30°-40°	2743.7	25.5
40°-50°	1305.2	12.1
50°-60°	543.7	5.1
60°-70°	151.9	1.4
70°-80°	11.5	0.1
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°	5997.3	55.8
0°-40°	8740.9	81.3
0°-60°	10589.8	98.5
0°-90°	10754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10754.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8107	8107	8107	8107	8107	
5°	7893	7933	8026	8133	8179	742
15°	7295	7362	7545	7774	7895	2061
25°	6657	6686	6798	6948	7026	3042
35°	4595	4530	4441	4373	4373	2751
45°	1410	1459	1587	1734	1802	1173
55°	604	596	582	582	595	549
65°	152	149	140	135	133	165
75°	10	8	7	7	7	13
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8107.2	8107.2	8107.2	8107.2	8107.2
2.5°	8053.3	8060.4	8087.3	8112.8	8124.2
5°	7893.2	7932.9	8026.4	8132.7	8179.4
7.5°	7710.5	7770.0	7927.2	8114.2	8200.6
10°	7544.8	7619.8	7808.3	8039.2	8148.2
12.5°	7414.4	7483.9	7676.5	7917.3	8040.6
15°	7295.4	7362.0	7544.8	7774.3	7894.7
17.5°	7176.5	7240.2	7397.4	7611.3	7727.5
20°	7037.6	7088.6	7230.3	7418.7	7520.7
22.5°	6864.8	6911.5	7030.5	7197.7	7289.8
25°	6656.6	6686.3	6798.2	6948.4	7026.3
27.5°	6380.3	6387.4	6455.4	6553.2	6611.2
30°	5979.4	5975.2	5956.8	5952.5	5985.1
32.5°	5418.5	5356.1	5248.5	5197.5	5157.8
35°	4595.4	4530.3	4441.0	4373.0	4373.0
37.5°	3513.1	3569.8	3605.2	3647.7	3669.0
40°	2551.3	2634.9	2811.9	2996.1	3045.7
42.5°	1854.3	1932.2	2123.5	2328.9	2388.4
45°	1409.5	1459.1	1586.6	1733.9	1801.9
47.5°	1138.9	1153.1	1216.9	1304.7	1337.3
50°	933.5	937.8	957.6	1002.9	1028.4
52.5°	755.0	752.2	757.9	770.6	782.0
55°	603.5	596.4	582.2	582.2	595.0
57.5°	466.1	456.1	440.6	433.5	429.2
60°	357.0	347.1	330.1	318.7	317.3
62.5°	256.4	247.9	230.9	221.0	218.2
65°	151.6	148.7	140.2	134.6	133.2
67.5°	70.8	68.0	60.9	58.1	56.7
70°	34.0	32.6	29.7	28.3	26.9
72.5°	17.0	17.0	14.2	14.2	14.2
75°	9.9	8.5	7.1	7.1	7.1
77.5°	5.7	4.2	4.2	4.2	4.2
80°	2.8	2.8	2.8	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4
85°	1.4	1.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)