

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: P247161

Luminaire Tested: **LD8B120D010 ER8B120850 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247161  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120850 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12585.0 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

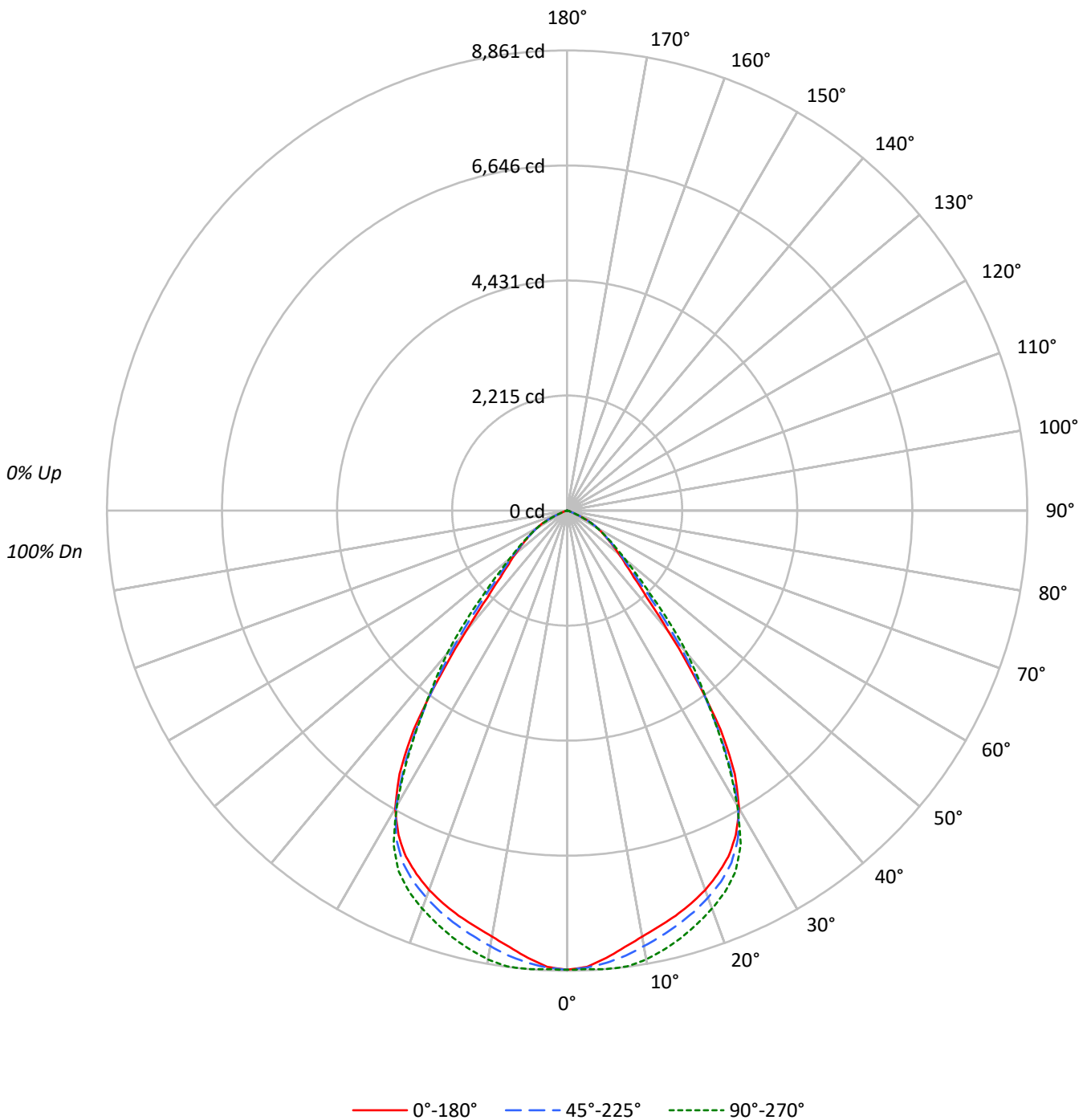
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	272639	272639	272639
5°	267632	270542	274281
10°	260773	266706	274791
15°	257819	263489	271684
20°	255126	260268	267711
25°	250104	254623	261019
30°	235809	234744	233309
35°	193969	187284	186218
40°	121458	134013	144886
45°	79264	88374	97937
50°	62494	65502	69796
55°	50944	51826	53428
60°	41691	41413	41228
65°	27004	26238	24823
70°	9286	8610	7934
75°	3205	3026	2848
80°	1332	1065	1065
85°	531	531	531



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	828.2	6.6
10°-20°	2333.5	18.5
20°-30°	3412.8	27.1
30°-40°	3092.4	24.6
40°-50°	1644.3	13.1
50°-60°	877.6	7.0
60°-70°	357.9	2.8
70°-80°	36.1	0.3
80°-90°	2.1	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°	6574.6	52.2
0°-40°	9667.0	76.8
0°-60°	12188.9	96.9
0°-90°	12585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12585.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8842	8842	8842	8842	8842	
5°	8646	8668	8740	8819	8861	815
15°	8076	8122	8254	8424	8510	2278
25°	7351	7382	7484	7612	7672	3359
35°	5153	5081	4975	4938	4947	3097
45°	1818	1871	2026	2188	2246	1487
55°	948	946	964	977	994	859
65°	370	369	360	339	340	369
75°	27	27	25	24	24	39
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8841.5	8841.5	8841.5	8841.5	8841.5
2.5°	8793.8	8792.3	8808.7	8828.1	8838.5
5°	8646.1	8668.4	8740.1	8819.2	8860.9
7.5°	8478.9	8520.7	8644.6	8780.4	8853.5
10°	8328.2	8381.9	8517.7	8695.3	8775.9
12.5°	8198.4	8250.6	8387.9	8569.9	8658.0
15°	8076.0	8122.3	8253.6	8423.7	8510.3
17.5°	7934.3	7979.0	8105.9	8267.0	8341.6
20°	7774.6	7811.9	7931.3	8082.0	8158.1
22.5°	7576.1	7616.4	7737.3	7876.1	7947.7
25°	7350.8	7382.1	7483.6	7611.9	7671.6
27.5°	7037.4	7065.8	7125.5	7194.1	7238.9
30°	6622.6	6615.1	6592.7	6571.8	6552.4
32.5°	6010.8	5939.1	5830.2	5761.5	5764.5
35°	5152.7	5081.1	4975.1	4937.8	4946.8
37.5°	4026.1	4079.8	4123.1	4194.7	4229.0
40°	3017.3	3109.8	3329.2	3520.2	3599.3
42.5°	2268.2	2359.2	2589.0	2790.5	2899.4
45°	1817.6	1871.3	2026.5	2187.6	2245.8
47.5°	1522.1	1546.0	1635.5	1738.5	1789.2
50°	1302.7	1317.6	1365.4	1422.1	1454.9
52.5°	1116.2	1122.2	1146.0	1178.9	1199.8
55°	947.6	946.1	964.0	977.4	993.8
57.5°	801.3	799.8	799.8	804.3	814.8
60°	676.0	671.5	671.5	665.5	668.5
62.5°	550.6	546.2	535.7	528.3	525.3
65°	370.1	368.6	359.6	338.7	340.2
67.5°	192.5	191.0	182.1	176.1	173.1
70°	103.0	100.0	95.5	91.0	88.0
72.5°	52.2	50.7	49.2	46.3	46.3
75°	26.9	26.9	25.4	23.9	23.9
77.5°	13.4	13.4	11.9	11.9	11.9
80°	7.5	7.5	6.0	6.0	6.0
82.5°	3.0	3.0	3.0	3.0	3.0
85°	1.5	1.5	1.5	1.5	1.5
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)