

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: P247185

Luminaire Tested: **LD8B120D010 ER8B1209727 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247185  
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 ER8B1209727 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8651.0 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

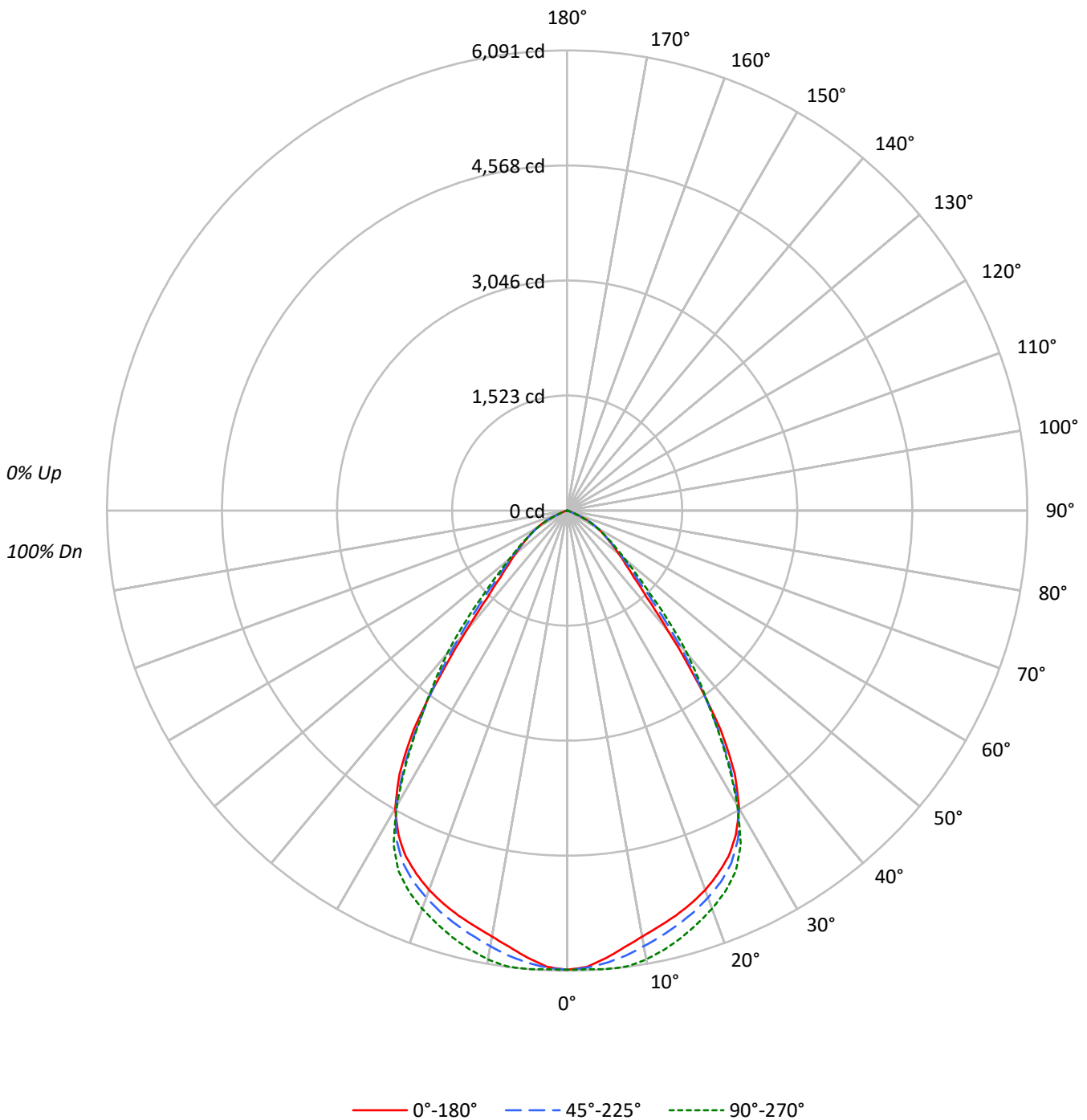
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

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

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	569.3	6.6
10°-20°	1604.1	18.5
20°-30°	2346.0	27.1
30°-40°	2125.7	24.6
40°-50°	1130.3	13.1
50°-60°	603.3	7.0
60°-70°	246.0	2.8
70°-80°	24.8	0.3
80°-90°	1.4	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°	4519.4	52.2
0°-40°	6645.1	76.8
0°-60°	8378.7	96.9
0°-90°	8651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8651.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6078	6078	6078	6078	6078	
5°	5943	5959	6008	6062	6091	560
15°	5552	5583	5674	5790	5850	1566
25°	5053	5074	5144	5232	5274	2309
35°	3542	3493	3420	3394	3400	2129
45°	1249	1286	1393	1504	1544	1022
55°	651	650	663	672	683	591
65°	254	253	247	233	234	254
75°	18	18	17	16	16	27
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6077.7	6077.7	6077.7	6077.7	6077.7
2.5°	6044.9	6043.9	6055.2	6068.5	6075.7
5°	5943.3	5958.7	6008.0	6062.3	6091.1
7.5°	5828.5	5857.2	5942.3	6035.7	6085.9
10°	5724.9	5761.8	5855.1	5977.2	6032.6
12.5°	5635.6	5671.5	5765.9	5891.0	5951.6
15°	5551.5	5583.3	5673.6	5790.5	5850.0
17.5°	5454.0	5484.8	5572.0	5682.8	5734.1
20°	5344.3	5369.9	5452.0	5555.6	5607.9
22.5°	5207.9	5235.6	5318.6	5414.0	5463.3
25°	5053.0	5074.5	5144.3	5232.5	5273.5
27.5°	4837.6	4857.0	4898.1	4945.3	4976.0
30°	4552.4	4547.3	4531.9	4517.5	4504.2
32.5°	4131.8	4082.6	4007.7	3960.5	3962.6
35°	3542.0	3492.8	3419.9	3394.3	3400.4
37.5°	2767.5	2804.5	2834.2	2883.5	2907.0
40°	2074.1	2137.7	2288.5	2419.8	2474.2
42.5°	1559.2	1621.8	1779.7	1918.2	1993.1
45°	1249.4	1286.3	1393.0	1503.8	1543.8
47.5°	1046.3	1062.7	1124.3	1195.0	1229.9
50°	895.5	905.8	938.6	977.6	1000.1
52.5°	767.3	771.4	787.8	810.4	824.7
55°	651.4	650.3	662.7	671.9	683.2
57.5°	550.8	549.8	549.8	552.9	560.1
60°	464.7	461.6	461.6	457.5	459.5
62.5°	378.5	375.4	368.3	363.1	361.1
65°	254.4	253.4	247.2	232.9	233.9
67.5°	132.3	131.3	125.1	121.0	119.0
70°	70.8	68.7	65.6	62.6	60.5
72.5°	35.9	34.9	33.9	31.8	31.8
75°	18.5	18.5	17.4	16.4	16.4
77.5°	9.2	9.2	8.2	8.2	8.2
80°	5.1	5.1	4.1	4.1	4.1
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.0	1.0	1.0	1.0	1.0
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)