

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: P247096

Luminaire Tested: **LD8B100D010 ER8B100827 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247096  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B100827 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11462.0 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

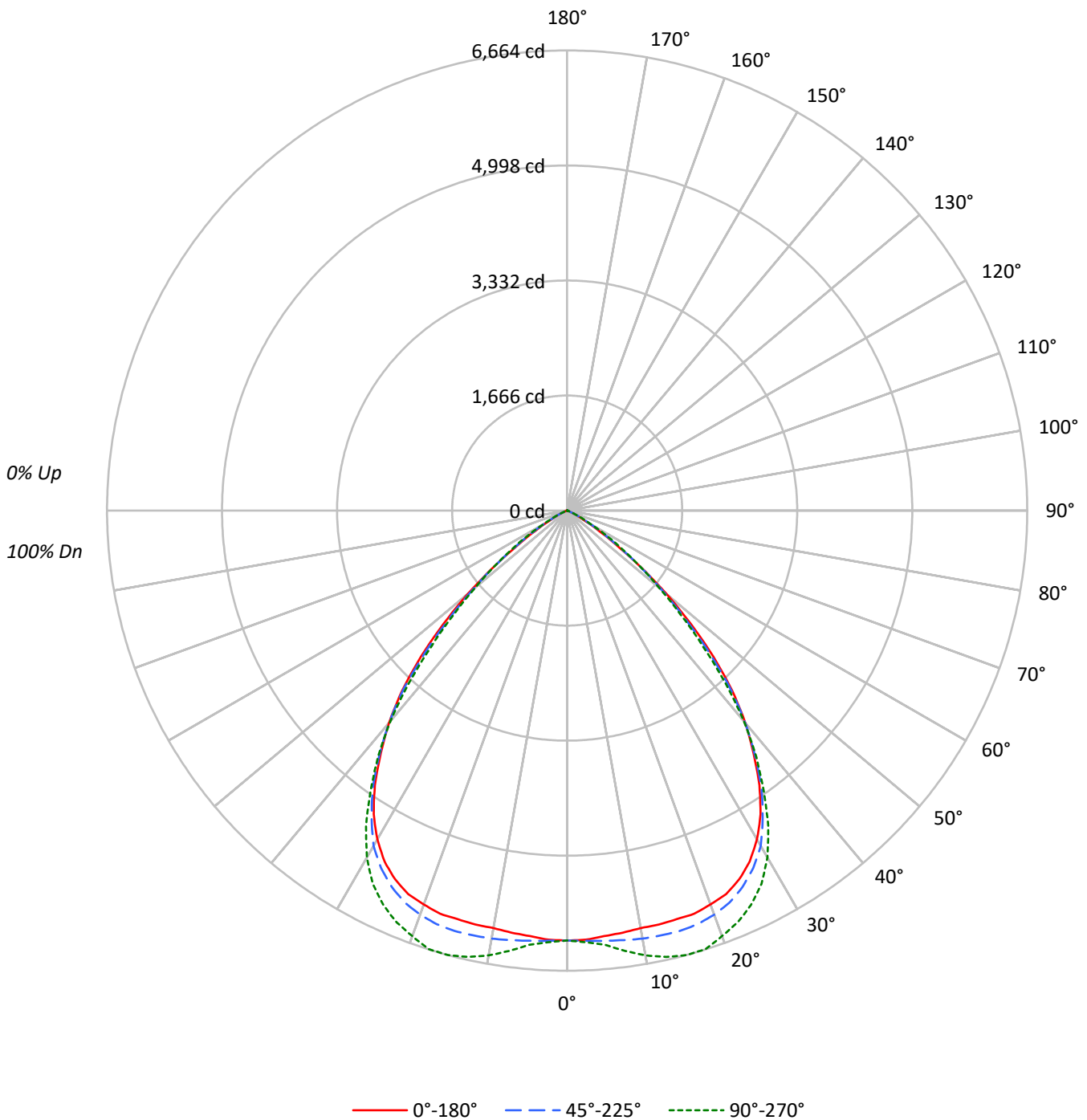
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37					37			

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

	0°	45°	90°
0°	191987	191987	191987
5°	191476	193590	195401
10°	192240	197087	204799
15°	195570	201211	212733
20°	199189	204351	215232
25°	200511	204577	214365
30°	195773	199679	206451
35°	182744	184626	186828
40°	161604	161455	160227
45°	130679	126959	121373
50°	89771	86322	83516
55°	46208	49154	52632
60°	19248	22782	25563
65°	7472	7917	9340
70°	1974	1866	2524
75°	870	1597	1454
80°	1296	1509	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	599.1	5.2
10°-20°	1793.7	15.6
20°-30°	2775.5	24.2
30°-40°	3040.1	26.5
40°-50°	2224.1	19.4
50°-60°	872.7	7.6
60°-70°	141.3	1.2
70°-80°	13.0	0.1
80°-90°	2.6	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°	5168.3	45.1
0°-40°	8208.4	71.6
0°-60°	11305.1	98.6
0°-90°	11462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11462.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6226	6226	6226	6226	6226	
5°	6186	6200	6254	6299	6313	589
15°	6126	6166	6303	6537	6664	1735
25°	5893	5912	6013	6194	6300	2702
35°	4854	4863	4904	4951	4963	3006
45°	2997	2992	2911	2822	2783	2282
55°	860	878	914	947	979	846
65°	102	100	108	120	128	124
75°	7	11	13	10	12	13
85°	0	0	0	0	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6226.0	6226.0	6226.0	6226.0	6226.0
2.5°	6219.9	6223.6	6235.8	6248.0	6255.3
5°	6185.8	6200.4	6254.1	6299.2	6312.6
7.5°	6165.1	6189.5	6273.6	6387.0	6430.8
10°	6139.5	6174.8	6294.3	6455.2	6540.6
12.5°	6140.7	6174.8	6301.6	6511.3	6621.0
15°	6126.1	6166.3	6302.8	6536.9	6663.7
17.5°	6122.4	6141.9	6280.9	6518.6	6658.8
20°	6070.0	6096.8	6227.3	6438.2	6558.9
22.5°	6012.7	6024.9	6144.4	6351.6	6454.0
25°	5893.2	5911.5	6012.7	6194.3	6300.4
27.5°	5728.6	5732.3	5834.7	6002.9	6095.6
30°	5498.2	5516.5	5607.9	5732.3	5798.1
32.5°	5212.9	5210.5	5270.2	5378.7	5421.4
35°	4854.5	4863.1	4904.5	4950.8	4963.0
37.5°	4433.9	4444.9	4472.9	4488.8	4499.8
40°	4014.6	4014.6	4010.9	3993.8	3980.4
42.5°	3536.7	3520.8	3502.5	3426.9	3394.0
45°	2996.6	2991.7	2911.3	2822.3	2783.2
47.5°	2428.5	2401.7	2317.5	2245.6	2229.8
50°	1871.3	1843.3	1799.4	1764.1	1740.9
52.5°	1333.7	1313.0	1331.3	1331.3	1328.8
55°	859.5	877.8	914.3	947.3	979.0
57.5°	544.9	569.3	625.4	668.1	679.0
60°	312.1	330.4	369.4	407.2	414.5
62.5°	196.3	197.5	223.1	245.0	258.5
65°	102.4	100.0	108.5	119.5	128.0
67.5°	42.7	42.7	51.2	50.0	63.4
70°	21.9	18.3	20.7	24.4	28.0
72.5°	15.8	12.2	17.1	21.9	9.8
75°	7.3	11.0	13.4	9.8	12.2
77.5°	9.8	9.8	7.3	12.2	2.4
80°	7.3	4.9	8.5	3.7	0.0
82.5°	1.2	2.4	1.2	1.2	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	3.7	6.1	4.9	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)