

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: P247100

Luminaire Tested: **LD8B100D010 ER8B100830 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247100  
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 ER8B100830 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11749.0 lumens  
Efficiency: N/A  
Efficacy: 110.5 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

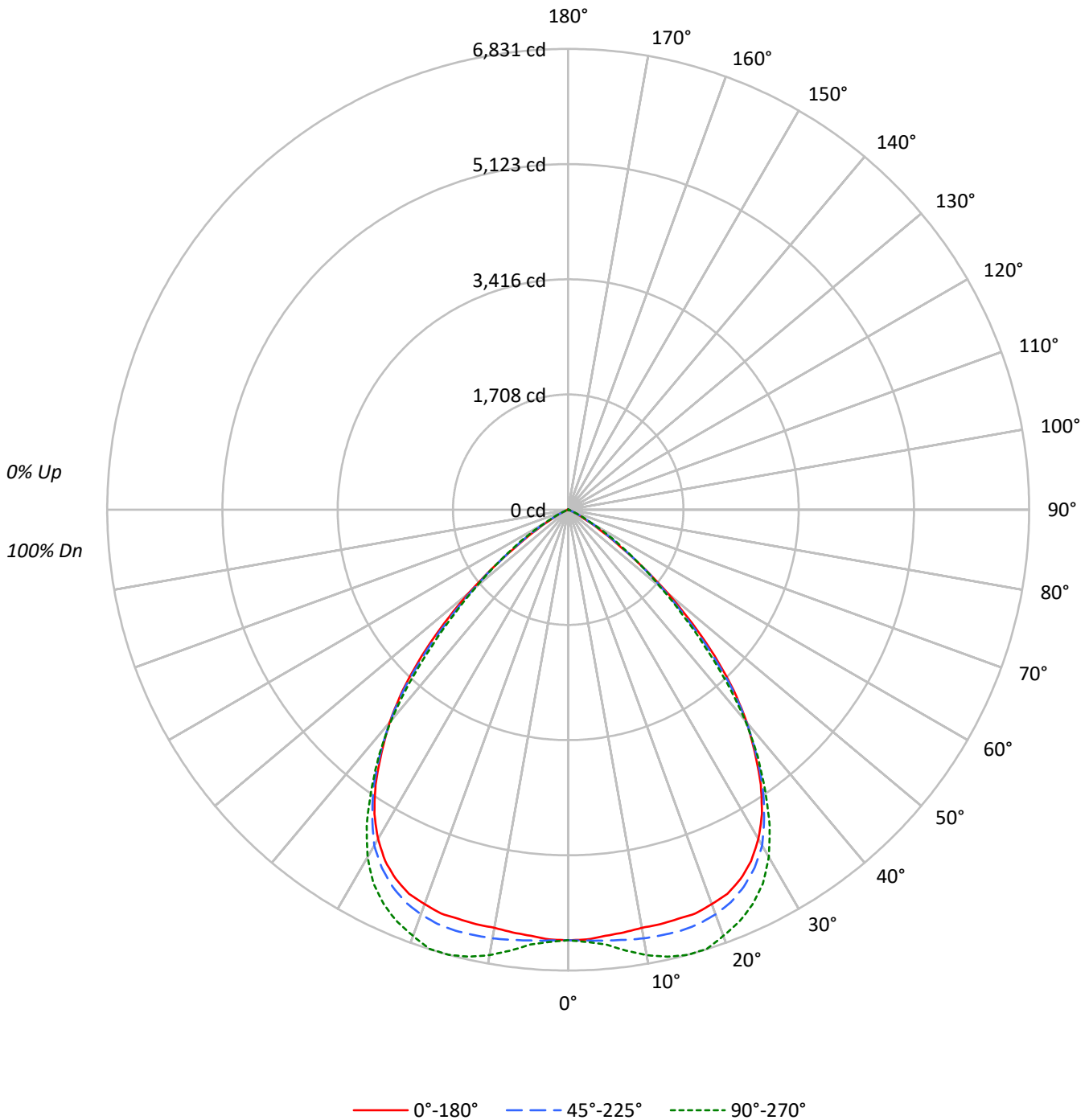
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	196794	196794	196794
5°	196271	198437	200295
10°	197053	202022	209925
15°	200467	206252	218061
20°	204177	209467	220621
25°	205533	209697	219734
30°	200676	204682	211621
35°	187321	189249	191507
40°	165649	165496	164240
45°	133950	130134	124412
50°	92021	88486	85607
55°	47364	50385	53950
60°	19729	23349	26205
65°	7661	8114	9573
70°	2029	1911	2588
75°	894	1632	1489
80°	1332	1545	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	614.1	5.2
10°-20°	1838.6	15.6
20°-30°	2845.0	24.2
30°-40°	3116.2	26.5
40°-50°	2279.8	19.4
50°-60°	894.5	7.6
60°-70°	144.8	1.2
70°-80°	13.3	0.1
80°-90°	2.7	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°	5297.7	45.1
0°-40°	8413.9	71.6
0°-60°	11588.2	98.6
0°-90°	11749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11749.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6382	6382	6382	6382	6382	
5°	6341	6356	6411	6457	6471	604
15°	6280	6321	6461	6701	6831	1778
25°	6041	6060	6163	6349	6458	2770
35°	4976	4985	5027	5075	5087	3081
45°	3072	3067	2984	2893	2853	2339
55°	881	900	937	971	1004	867
65°	105	102	111	122	131	127
75°	8	11	14	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°	6381.9	6381.9	6381.9	6381.9	6381.9
2.5°	6375.7	6379.4	6391.9	6404.4	6411.9
5°	6340.7	6355.7	6410.7	6456.9	6470.7
7.5°	6319.4	6344.4	6430.7	6546.9	6591.9
10°	6293.2	6329.4	6451.9	6616.9	6704.3
12.5°	6294.5	6329.4	6459.4	6674.3	6786.8
15°	6279.5	6320.7	6460.7	6700.6	6830.6
17.5°	6275.7	6295.7	6438.2	6681.8	6825.6
20°	6222.0	6249.5	6383.2	6599.4	6723.1
22.5°	6163.2	6175.7	6298.2	6510.6	6615.6
25°	6040.8	6059.5	6163.2	6349.4	6458.2
27.5°	5872.1	5875.8	5980.8	6153.2	6248.2
30°	5635.9	5654.6	5748.4	5875.8	5943.3
32.5°	5343.5	5341.0	5402.2	5513.4	5557.2
35°	4976.1	4984.8	5027.3	5074.8	5087.3
37.5°	4545.0	4556.2	4584.9	4601.2	4612.4
40°	4115.1	4115.1	4111.3	4093.8	4080.1
42.5°	3625.2	3609.0	3590.2	3512.7	3479.0
45°	3071.6	3066.6	2984.1	2892.9	2852.9
47.5°	2489.3	2461.8	2375.6	2301.8	2285.6
50°	1918.2	1889.5	1844.5	1808.2	1784.5
52.5°	1367.1	1345.9	1364.6	1364.6	1362.1
55°	881.0	899.7	937.2	971.0	1003.5
57.5°	558.6	583.6	641.1	684.8	696.1
60°	319.9	338.7	378.6	417.4	424.9
62.5°	201.2	202.4	228.7	251.2	264.9
65°	105.0	102.5	111.2	122.5	131.2
67.5°	43.7	43.7	52.5	51.2	65.0
70°	22.5	18.7	21.2	25.0	28.7
72.5°	16.2	12.5	17.5	22.5	10.0
75°	7.5	11.2	13.7	10.0	12.5
77.5°	10.0	10.0	7.5	12.5	2.5
80°	7.5	5.0	8.7	3.7	0.0
82.5°	1.2	2.5	1.2	1.2	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	3.7	6.2	5.0	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)