

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: P247458

Luminaire Tested: **LD8B80D010 ER8B80935 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247458  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80935 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7958.0 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

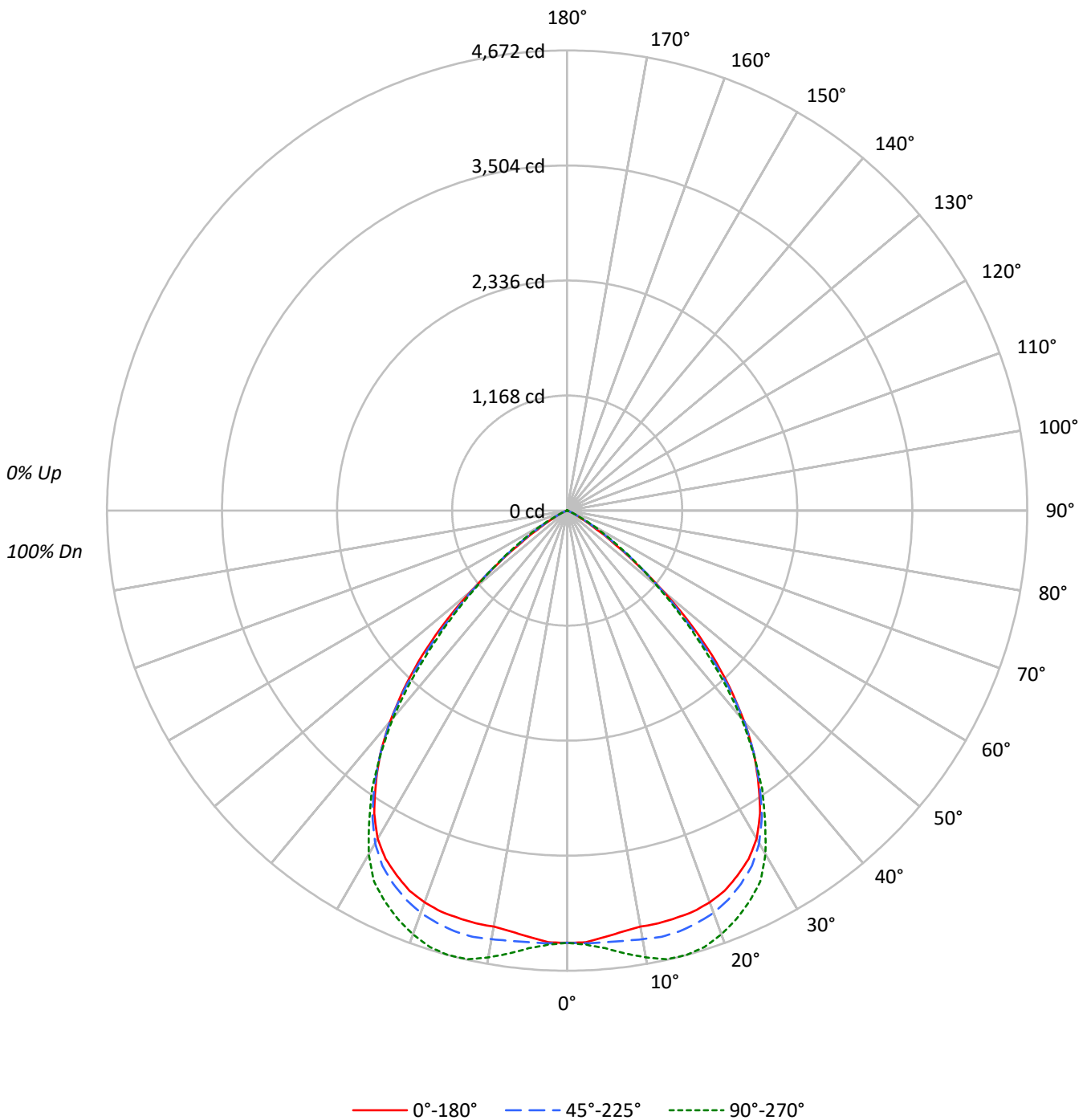
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	135294	135294	135294
5°	134545	136155	138055
10°	134313	138343	144220
15°	136664	141130	149133
20°	138884	142609	150219
25°	139128	142204	148934
30°	137004	138795	143413
35°	127508	128344	129948
40°	112699	112562	110533
45°	90777	87393	84009
50°	60954	59362	57356
55°	30945	33606	35671
60°	12674	15517	18095
65°	4728	5042	5910
70°	307	307	234
75°	608	1013	1322
80°	160	0	0
85°	601	0	601



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.3	5.3
10°-20°	1255.6	15.8
20°-30°	1932.2	24.3
30°-40°	2116.2	26.6
40°-50°	1538.7	19.3
50°-60°	591.9	7.4
60°-70°	92.7	1.2
70°-80°	6.7	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°	3609.1	45.4
0°-40°	5725.3	71.9
0°-60°	7855.9	98.7
0°-90°	7958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7958.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4388	4388	4388	4388	4388	
5°	4347	4369	4399	4440	4460	413
15°	4281	4314	4421	4584	4672	1211
25°	4089	4114	4180	4303	4377	1881
35°	3387	3387	3409	3431	3452	2103
45°	2082	2060	2004	1953	1926	1583
55°	576	591	625	646	664	562
65°	65	67	69	78	81	79
75°	5	11	8	11	11	7
85°	2	0	0	0	2	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4387.5	4387.5	4387.5	4387.5	4387.5
2.5°	4386.7	4393.5	4397.8	4407.2	4411.4
5°	4346.6	4368.8	4398.6	4440.4	4460.0
7.5°	4311.6	4342.3	4406.3	4496.7	4536.8
10°	4289.5	4322.7	4418.2	4541.0	4605.9
12.5°	4292.0	4328.7	4431.9	4579.4	4666.4
15°	4280.9	4314.2	4420.8	4584.5	4671.5
17.5°	4268.2	4295.4	4390.1	4550.4	4644.2
20°	4232.3	4255.4	4345.8	4490.7	4577.7
22.5°	4178.6	4199.9	4275.0	4409.7	4489.9
25°	4089.1	4113.8	4179.5	4303.1	4377.3
27.5°	3989.3	4003.8	4064.3	4176.9	4247.7
30°	3847.7	3852.8	3898.0	3985.0	4027.7
32.5°	3645.6	3644.8	3678.9	3722.4	3738.6
35°	3387.2	3387.2	3409.4	3430.7	3452.0
37.5°	3118.6	3115.2	3117.8	3122.9	3105.0
40°	2799.7	2792.8	2796.3	2765.6	2745.9
42.5°	2450.0	2456.0	2421.9	2367.3	2346.8
45°	2081.6	2060.3	2004.0	1952.9	1926.4
47.5°	1690.2	1656.9	1603.2	1550.3	1546.1
50°	1270.6	1272.3	1237.4	1207.5	1195.6
52.5°	881.8	891.2	909.1	912.5	916.7
55°	575.6	591.0	625.1	645.6	663.5
57.5°	352.2	380.3	409.3	447.7	451.1
60°	205.5	219.2	251.6	280.6	293.4
62.5°	116.0	128.8	135.6	152.6	156.9
65°	64.8	67.4	69.1	78.5	81.0
67.5°	39.2	40.9	42.6	41.8	43.5
70°	3.4	7.7	3.4	4.3	2.6
72.5°	14.5	9.4	10.2	7.7	5.1
75°	5.1	11.1	8.5	11.1	11.1
77.5°	3.4	2.6	4.3	5.1	4.3
80°	0.9	0.0	0.0	0.0	0.0
82.5°	7.7	6.8	4.3	6.8	2.6
85°	1.7	0.0	0.0	0.0	1.7
87.5°	5.1	2.6	2.6	6.0	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)