

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: P247602

Luminaire Tested: **LD8B80D010 ER8B80935 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80935 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4716.0 lumens  
Efficiency: N/A  
Efficacy: 63.4 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

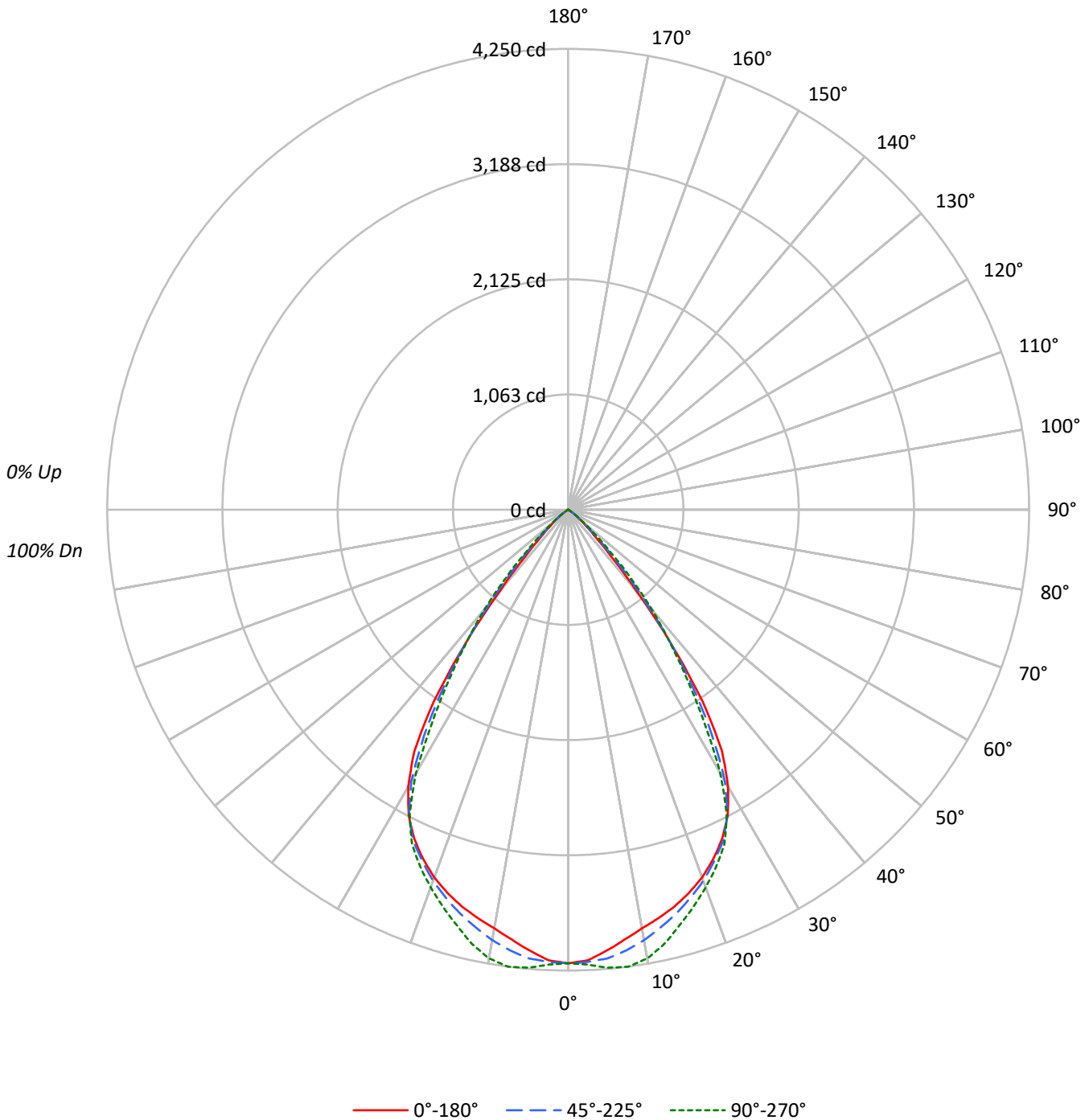
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100	100	100		
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93	93		
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86	86	86	86		
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79	79	79	79		
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73	73	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68	68	68	68		
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63	63	63	63		
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54	54	54	54		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50	50	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47	47		

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

	0°	45°	90°
0°	128988	128988	128988
5°	126339	128559	131248
10°	122781	126197	131567
15°	120906	123058	126678
20°	118434	119523	121594
25°	114062	114872	115890
30°	104944	102911	99873
35°	81319	75763	71976
40°	39513	44835	48027
45°	15285	19672	23837
50°	7158	8184	9369
55°	2978	3210	3301
60°	999	950	894
65°	124	190	190
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.2	8.3
10°-20°	1088.1	23.1
20°-30°	1533.2	32.5
30°-40°	1240.4	26.3
40°-50°	393.8	8.3
50°-60°	63.0	1.3
60°-70°	4.3	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	3014.5	63.9
0°-40°	4255.0	90.2
0°-60°	4711.7	99.9
0°-90°	4716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4716.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4183	4183	4183	4183	4183	
5°	4082	4100	4153	4214	4240	385
15°	3787	3802	3855	3928	3968	1067
25°	3352	3358	3376	3395	3406	1531
35°	2160	2101	2013	1940	1912	1281
45°	350	379	451	515	547	327
55°	55	56	60	62	61	58
65°	2	3	3	3	3	4
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4183.0	4183.0	4183.0	4183.0	4183.0
2.5°	4159.1	4163.4	4173.6	4193.2	4199.2
5°	4081.5	4100.3	4153.2	4213.7	4240.1
7.5°	3997.9	4022.7	4100.3	4202.6	4250.4
10°	3921.2	3947.6	4030.3	4139.5	4201.8
12.5°	3856.4	3876.8	3944.2	4042.3	4100.3
15°	3787.3	3801.8	3854.7	3928.0	3968.1
17.5°	3704.6	3717.4	3752.3	3809.5	3840.2
20°	3609.1	3612.5	3642.3	3679.0	3705.4
22.5°	3490.5	3493.9	3511.0	3546.0	3563.9
25°	3352.4	3358.3	3376.2	3395.0	3406.1
27.5°	3182.7	3185.2	3176.7	3161.3	3164.8
30°	2947.3	2937.9	2890.2	2824.5	2804.9
32.5°	2638.6	2576.3	2473.1	2381.0	2343.5
35°	2160.2	2101.3	2012.6	1940.1	1912.0
37.5°	1552.1	1556.4	1550.4	1534.2	1537.6
40°	981.6	1020.8	1113.8	1174.3	1193.1
42.5°	589.3	631.9	734.3	816.1	842.6
45°	350.5	378.6	451.1	515.1	546.6
47.5°	225.1	238.8	274.6	312.1	330.0
50°	149.2	156.1	170.6	187.6	195.3
52.5°	95.5	98.1	104.9	110.9	116.8
55°	55.4	56.3	59.7	62.3	61.4
57.5°	29.0	29.0	29.0	29.0	29.0
60°	16.2	15.4	15.4	15.4	14.5
62.5°	7.7	7.7	7.7	6.8	6.8
65°	1.7	2.6	2.6	2.6	2.6
67.5°	0.0	0.0	0.0	0.0	0.9
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)