

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: P247620

Luminaire Tested: **LD8B100D010 ER8B1009730 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247620  
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: LD8B100D010 ER8B1009730 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5294.0 lumens  
Efficiency: N/A  
Efficacy: 49.8 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

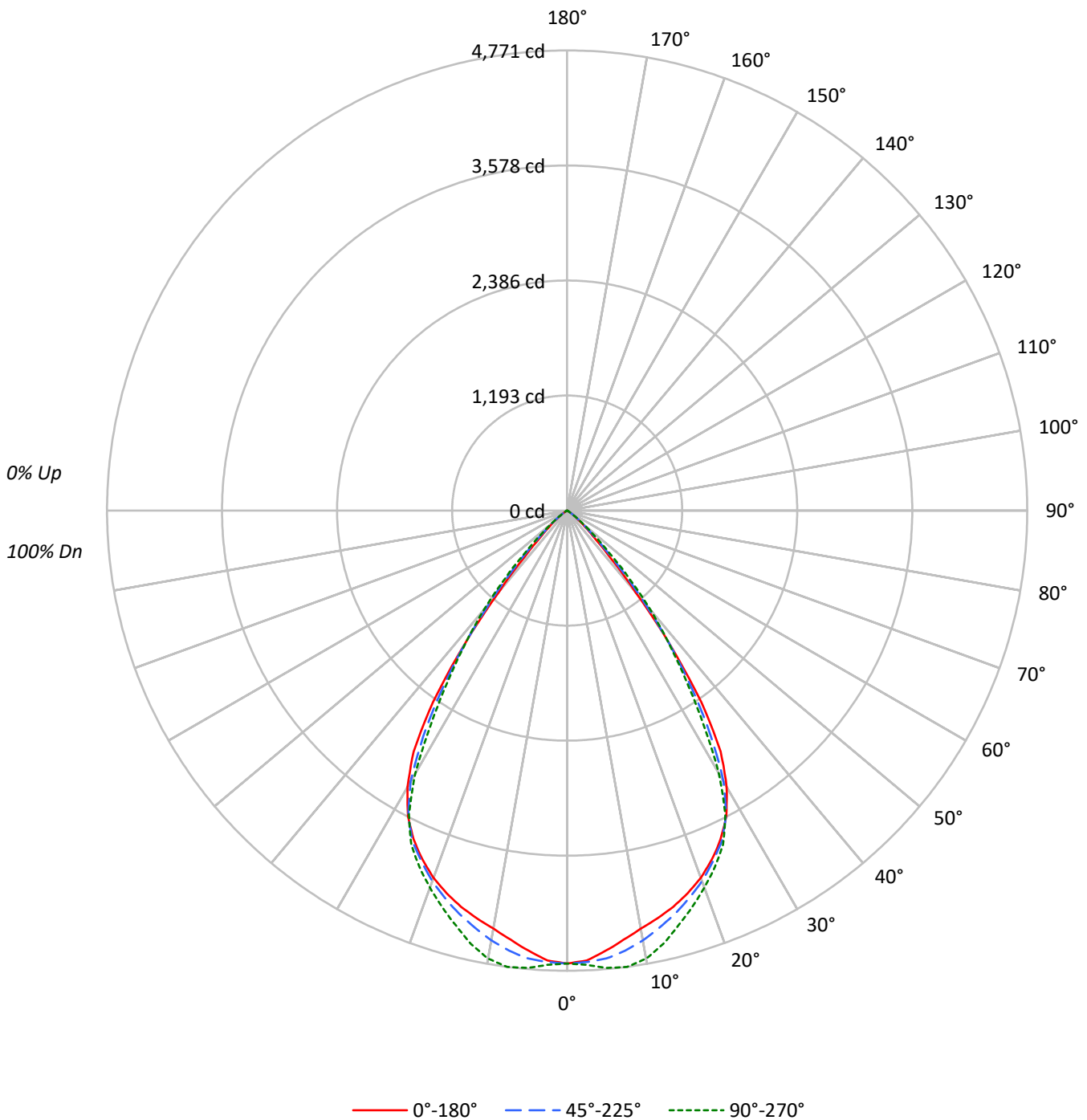
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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			
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	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			
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	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			
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	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			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	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			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47			

**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°	441.4	8.3
10°-20°	1221.5	23.1
20°-30°	1721.1	32.5
30°-40°	1392.5	26.3
40°-50°	442.1	8.4
50°-60°	70.7	1.3
60°-70°	4.8	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°	3384.0	63.9
0°-40°	4776.5	90.2
0°-60°	5289.2	99.9
0°-90°	5294.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5294.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4696	4696	4696	4696	4696	
5°	4582	4603	4662	4730	4760	432
15°	4252	4268	4327	4409	4454	1197
25°	3763	3770	3790	3811	3824	1718
35°	2425	2359	2259	2178	2146	1438
45°	394	425	506	578	614	367
55°	62	63	67	70	69	65
65°	2	3	3	3	3	5
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°	4695.7	4695.7	4695.7	4695.7	4695.7
2.5°	4668.9	4673.7	4685.1	4707.2	4713.9
5°	4581.8	4602.8	4662.2	4730.1	4759.8
7.5°	4487.9	4515.7	4602.8	4717.7	4771.3
10°	4401.8	4431.5	4524.3	4646.9	4716.7
12.5°	4329.0	4352.0	4427.6	4537.7	4602.8
15°	4251.5	4267.8	4327.1	4409.4	4454.4
17.5°	4158.6	4173.0	4212.2	4276.4	4310.8
20°	4051.4	4055.2	4088.7	4129.9	4159.6
22.5°	3918.3	3922.2	3941.3	3980.6	4000.7
25°	3763.2	3769.9	3790.0	3811.1	3823.6
27.5°	3572.7	3575.6	3566.0	3548.8	3552.6
30°	3308.5	3298.0	3244.4	3170.7	3148.6
32.5°	2962.0	2892.1	2776.2	2672.8	2630.7
35°	2424.9	2358.8	2259.3	2177.9	2146.3
37.5°	1742.3	1747.1	1740.4	1722.2	1726.1
40°	1101.9	1145.9	1250.3	1318.2	1339.3
42.5°	661.5	709.4	824.3	916.2	945.8
45°	393.5	425.1	506.4	578.2	613.6
47.5°	252.7	268.1	308.3	350.4	370.5
50°	167.5	175.2	191.5	210.6	219.2
52.5°	107.2	110.1	117.8	124.5	131.2
55°	62.2	63.2	67.0	69.9	68.9
57.5°	32.5	32.5	32.5	32.5	32.5
60°	18.2	17.2	17.2	17.2	16.3
62.5°	8.6	8.6	8.6	7.7	7.7
65°	1.9	2.9	2.9	2.9	2.9
67.5°	0.0	0.0	0.0	0.0	1.0
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)