

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: P247591

Luminaire Tested: **LD8B90D010 ER8B90850 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247591  
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: LD8B90D010 ER8B90850 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6309.0 lumens  
Efficiency: N/A  
Efficacy: 73.3 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

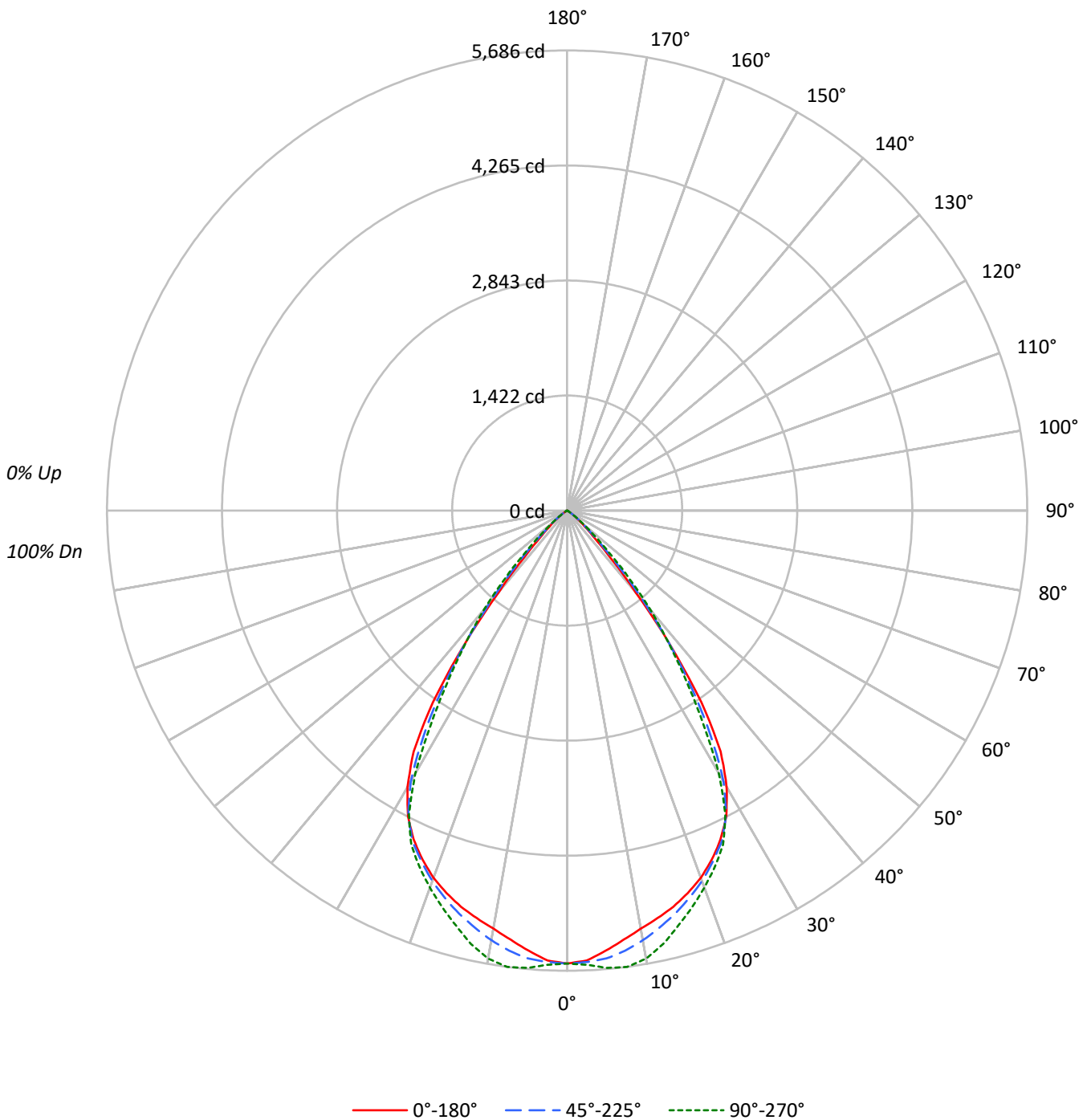
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	172560	172560	172560
5°	169016	171981	175584
10°	164253	168825	176008
15°	161747	164623	169469
20°	158439	159896	162669
25°	152591	153677	155034
30°	140390	137670	133607
35°	108784	101353	96286
40°	52857	59978	64249
45°	20448	26318	31891
50°	9580	10947	12535
55°	3989	4296	4414
60°	1338	1264	1196
65°	168	248	248
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°	526.0	8.3
10°-20°	1455.7	23.1
20°-30°	2051.1	32.5
30°-40°	1659.4	26.3
40°-50°	526.8	8.4
50°-60°	84.2	1.3
60°-70°	5.7	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°	4032.8	63.9
0°-40°	5692.3	90.2
0°-60°	6303.3	99.9
0°-90°	6309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6309.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5596	5596	5596	5596	5596	
5°	5460	5485	5556	5637	5672	514
15°	5067	5086	5157	5255	5308	1427
25°	4485	4493	4517	4542	4557	2048
35°	2890	2811	2692	2596	2558	1714
45°	469	506	604	689	731	437
55°	74	75	80	83	82	77
65°	2	3	3	3	3	6
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°	5596.0	5596.0	5596.0	5596.0	5596.0
2.5°	5564.0	5569.7	5583.4	5609.7	5617.6
5°	5460.2	5485.3	5556.0	5637.0	5672.4
7.5°	5348.4	5381.5	5485.3	5622.2	5686.1
10°	5245.7	5281.1	5391.7	5537.8	5621.1
12.5°	5159.0	5186.4	5276.5	5407.7	5485.3
15°	5066.6	5086.0	5156.7	5254.8	5308.5
17.5°	4955.9	4973.0	5019.8	5096.3	5137.3
20°	4828.2	4832.7	4872.6	4921.7	4957.1
22.5°	4669.6	4674.1	4697.0	4743.7	4767.7
25°	4484.8	4492.7	4516.7	4541.8	4556.6
27.5°	4257.7	4261.1	4249.7	4229.2	4233.8
30°	3942.8	3930.3	3866.4	3778.6	3752.3
32.5°	3529.8	3446.6	3308.5	3185.3	3135.1
35°	2889.8	2811.1	2692.4	2595.5	2557.8
37.5°	2076.4	2082.1	2074.1	2052.4	2057.0
40°	1313.1	1365.6	1490.0	1571.0	1596.1
42.5°	788.3	845.4	982.3	1091.8	1127.2
45°	468.9	506.5	603.5	689.1	731.3
47.5°	301.2	319.4	367.4	417.6	441.5
50°	199.7	208.8	228.2	251.0	261.3
52.5°	127.8	131.2	140.3	148.3	156.3
55°	74.2	75.3	79.9	83.3	82.1
57.5°	38.8	38.8	38.8	38.8	38.8
60°	21.7	20.5	20.5	20.5	19.4
62.5°	10.3	10.3	10.3	9.1	9.1
65°	2.3	3.4	3.4	3.4	3.4
67.5°	0.0	0.0	0.0	0.0	1.1
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)