

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: P247619

Luminaire Tested: **LD8B90D010 ER8B90930 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247619  
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 ER8B90930 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: 5143.1 lumens  
Efficiency: N/A  
Efficacy: 59.7 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

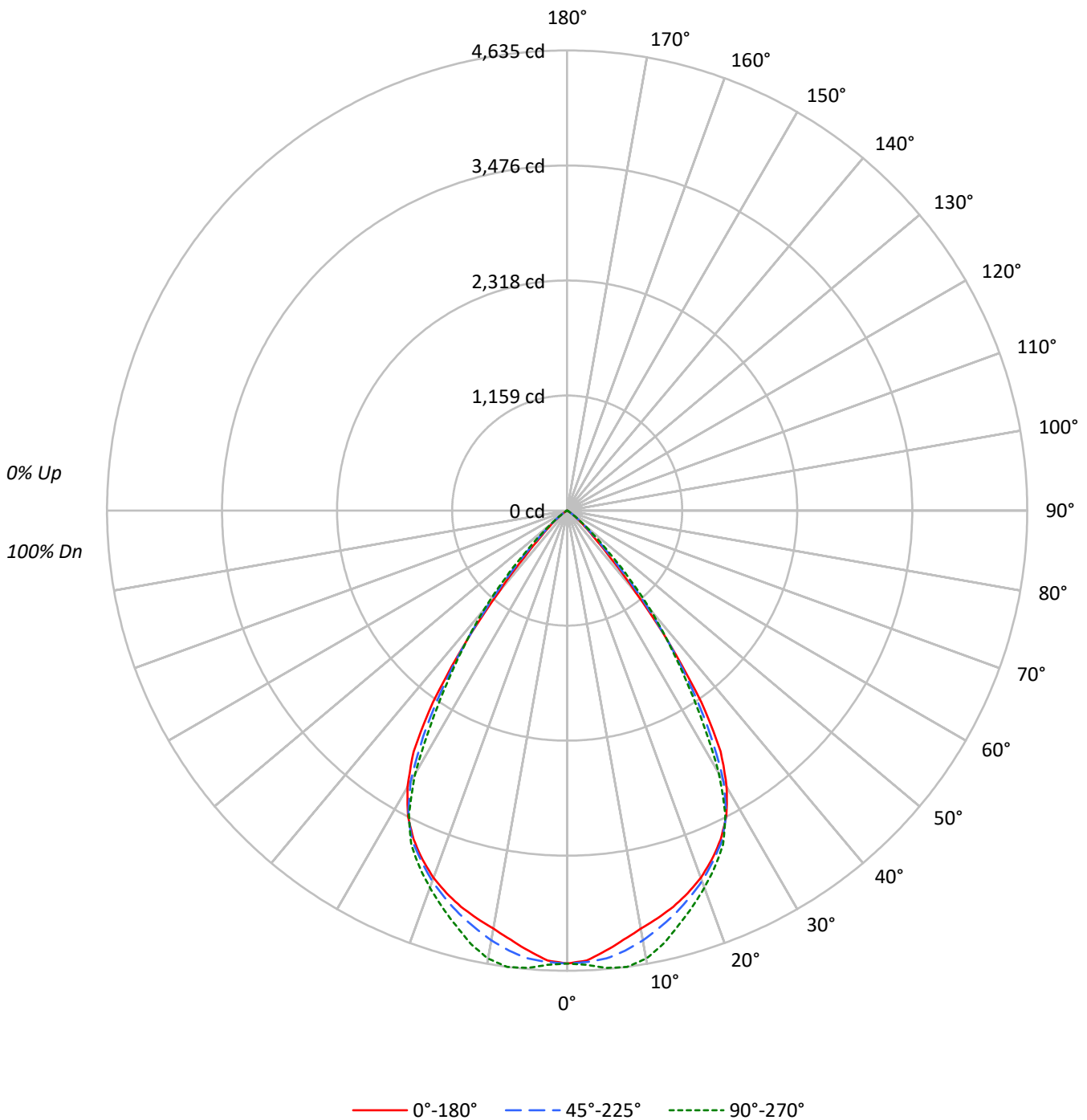
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	428.8	8.3
10°-20°	1186.7	23.1
20°-30°	1672.1	32.5
30°-40°	1352.8	26.3
40°-50°	429.5	8.3
50°-60°	68.7	1.3
60°-70°	4.7	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°	3287.6	63.9
0°-40°	4640.4	90.2
0°-60°	5138.5	99.9
0°-90°	5143.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5143.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4562	4562	4562	4562	4562	
5°	4451	4472	4529	4595	4624	419
15°	4130	4146	4204	4284	4328	1163
25°	3656	3662	3682	3703	3714	1669
35°	2356	2292	2195	2116	2085	1397
45°	382	413	492	562	596	356
55°	60	61	65	68	67	63
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°	4561.9	4561.9	4561.9	4561.9	4561.9
2.5°	4535.8	4540.5	4551.6	4573.0	4579.5
5°	4451.2	4471.7	4529.3	4595.3	4624.2
7.5°	4360.0	4387.0	4471.7	4583.2	4635.3
10°	4276.4	4305.2	4395.4	4514.5	4582.3
12.5°	4205.7	4228.0	4301.5	4408.4	4471.7
15°	4130.3	4146.1	4203.8	4283.8	4327.5
17.5°	4040.1	4054.1	4092.2	4154.5	4187.9
20°	3935.9	3939.6	3972.3	4012.2	4041.1
22.5°	3806.7	3810.4	3829.0	3867.1	3886.6
25°	3656.0	3662.5	3682.0	3702.6	3714.5
27.5°	3471.0	3473.8	3464.5	3447.6	3451.4
30°	3214.2	3204.0	3151.9	3080.3	3058.9
32.5°	2877.6	2809.7	2697.1	2596.7	2555.8
35°	2355.8	2291.7	2194.9	2115.9	2085.2
37.5°	1692.7	1697.3	1690.8	1673.2	1676.9
40°	1070.4	1113.3	1214.6	1280.6	1301.1
42.5°	642.7	689.2	800.7	890.1	918.9
45°	382.3	413.0	492.0	561.7	596.1
47.5°	245.5	260.4	299.4	340.4	360.0
50°	162.8	170.2	186.0	204.6	213.0
52.5°	104.1	106.9	114.3	121.0	127.5
55°	60.4	61.4	65.1	67.9	66.9
57.5°	31.6	31.6	31.6	31.6	31.6
60°	17.7	16.7	16.7	16.7	15.8
62.5°	8.4	8.4	8.4	7.4	7.4
65°	1.9	2.8	2.8	2.8	2.8
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)