

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: P247507

Luminaire Tested: **LD8B90D010 ER8B90935 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247507  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90935 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7291.0 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

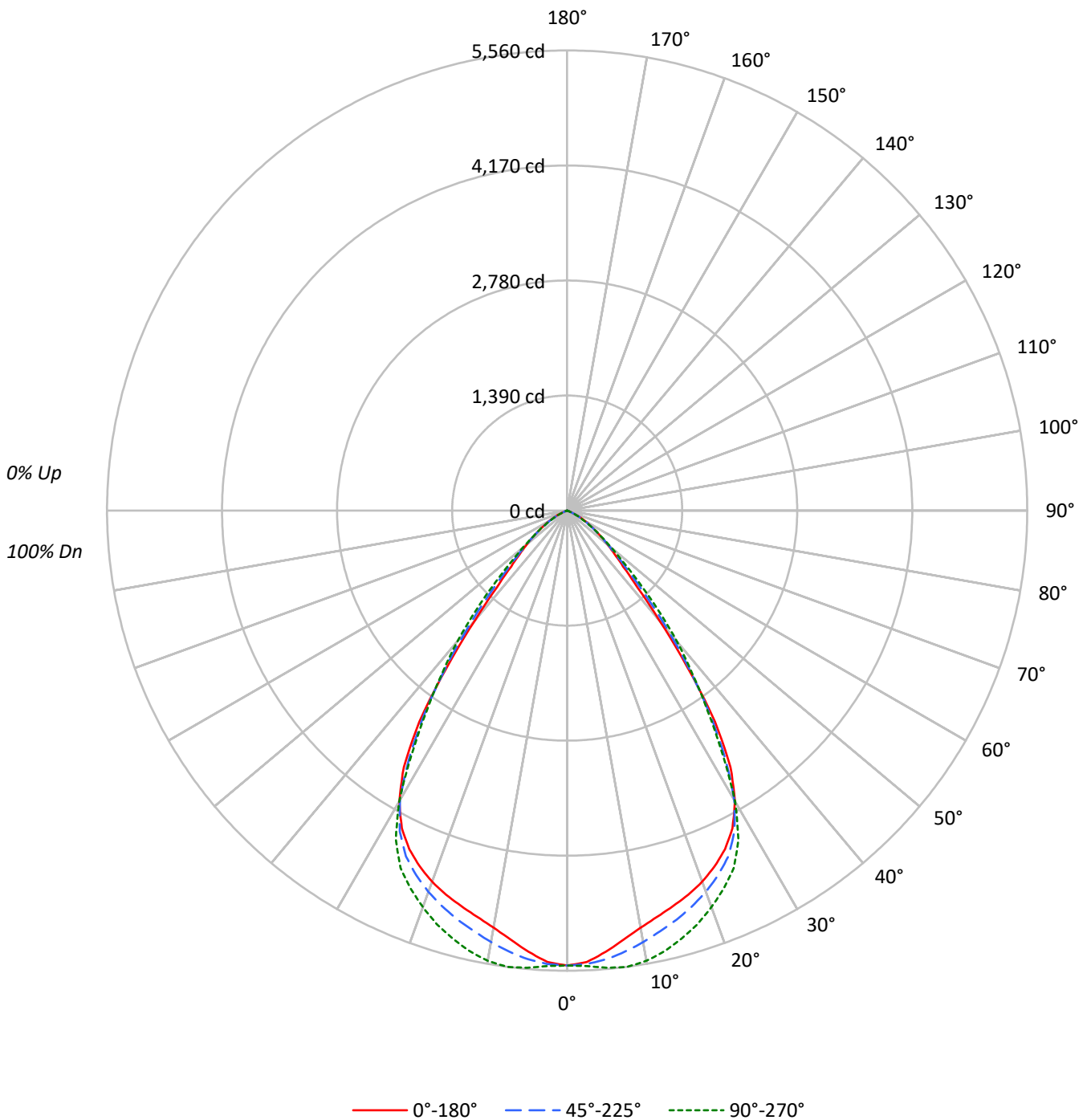
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247507

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBW0GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P247507

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBW0GPH

**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			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94					92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85					84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78					76				
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71					69				
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65					63				
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60					58				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55					53				
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51					49				
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47					46				
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44					42				

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

	0°	45°	90°
0°	169492	169492	169492
5°	165651	168443	171656
10°	160167	165760	172977
15°	157903	163298	170871
20°	156575	160861	167322
25°	153551	156821	162081
30°	144346	143801	144485
35°	117284	113343	111607
40°	69627	76740	83120
45°	41673	46910	53277
50°	30362	31144	33451
55°	21994	21220	21687
60°	14925	13802	13266
65°	7501	6939	6589
70°	2083	1821	1641
75°	798	572	572
80°	337	337	178
85°	354	0	0



TEST NUMBER: P247507

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBW0GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	515.3	7.1
10°-20°	1447.2	19.8
20°-30°	2103.5	28.9
30°-40°	1860.2	25.5
40°-50°	884.9	12.1
50°-60°	368.6	5.1
60°-70°	103.0	1.4
70°-80°	7.8	0.1
80°-90°	0.6	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°	4066.0	55.8
0°-40°	5926.2	81.3
0°-60°	7179.7	98.5
0°-90°	7291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7291.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5496	5496	5496	5496	5496	
5°	5352	5378	5442	5514	5546	503
15°	4946	4991	5115	5271	5352	1397
25°	4513	4533	4609	4711	4764	2063
35°	3116	3071	3011	2965	2965	1865
45°	956	989	1076	1176	1222	796
55°	409	404	395	395	403	372
65°	103	101	95	91	90	112
75°	7	6	5	5	5	9
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P247507

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBW0GPH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5496.5	5496.5	5496.5	5496.5	5496.5
2.5°	5460.0	5464.8	5483.0	5500.3	5508.0
5°	5351.5	5378.4	5441.7	5513.8	5545.5
7.5°	5227.6	5267.9	5374.5	5501.3	5559.9
10°	5115.2	5166.1	5293.8	5450.4	5524.3
12.5°	5026.8	5073.9	5204.5	5367.8	5451.4
15°	4946.2	4991.3	5115.2	5270.8	5352.4
17.5°	4865.5	4908.7	5015.3	5160.3	5239.1
20°	4771.4	4805.9	4902.0	5029.7	5098.9
22.5°	4654.2	4685.9	4766.6	4879.9	4942.3
25°	4513.0	4533.2	4609.1	4710.9	4763.7
27.5°	4325.7	4330.5	4376.6	4442.9	4482.3
30°	4053.9	4051.1	4038.6	4035.7	4057.8
32.5°	3673.6	3631.4	3558.4	3523.8	3496.9
35°	3115.6	3071.4	3010.9	2964.8	2964.8
37.5°	2381.8	2420.3	2444.3	2473.1	2487.5
40°	1729.7	1786.4	1906.4	2031.3	2064.9
42.5°	1257.2	1310.0	1439.7	1578.9	1619.3
45°	955.6	989.2	1075.7	1175.6	1221.7
47.5°	772.2	781.8	825.0	884.5	906.6
50°	632.9	635.8	649.2	680.0	697.3
52.5°	511.9	510.0	513.8	522.5	530.2
55°	409.1	404.3	394.7	394.7	403.4
57.5°	316.0	309.3	298.7	293.9	291.0
60°	242.0	235.3	223.8	216.1	215.1
62.5°	173.8	168.1	156.5	149.8	147.9
65°	102.8	100.8	95.1	91.2	90.3
67.5°	48.0	46.1	41.3	39.4	38.4
70°	23.1	22.1	20.2	19.2	18.2
72.5°	11.5	11.5	9.6	9.6	9.6
75°	6.7	5.8	4.8	4.8	4.8
77.5°	3.8	2.9	2.9	2.9	2.9
80°	1.9	1.9	1.9	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	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)