

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: P247495

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247495  
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: LSR8B90D010 EC8B90850 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8660.0 lumens  
Efficiency: N/A  
Efficacy: 100.6 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

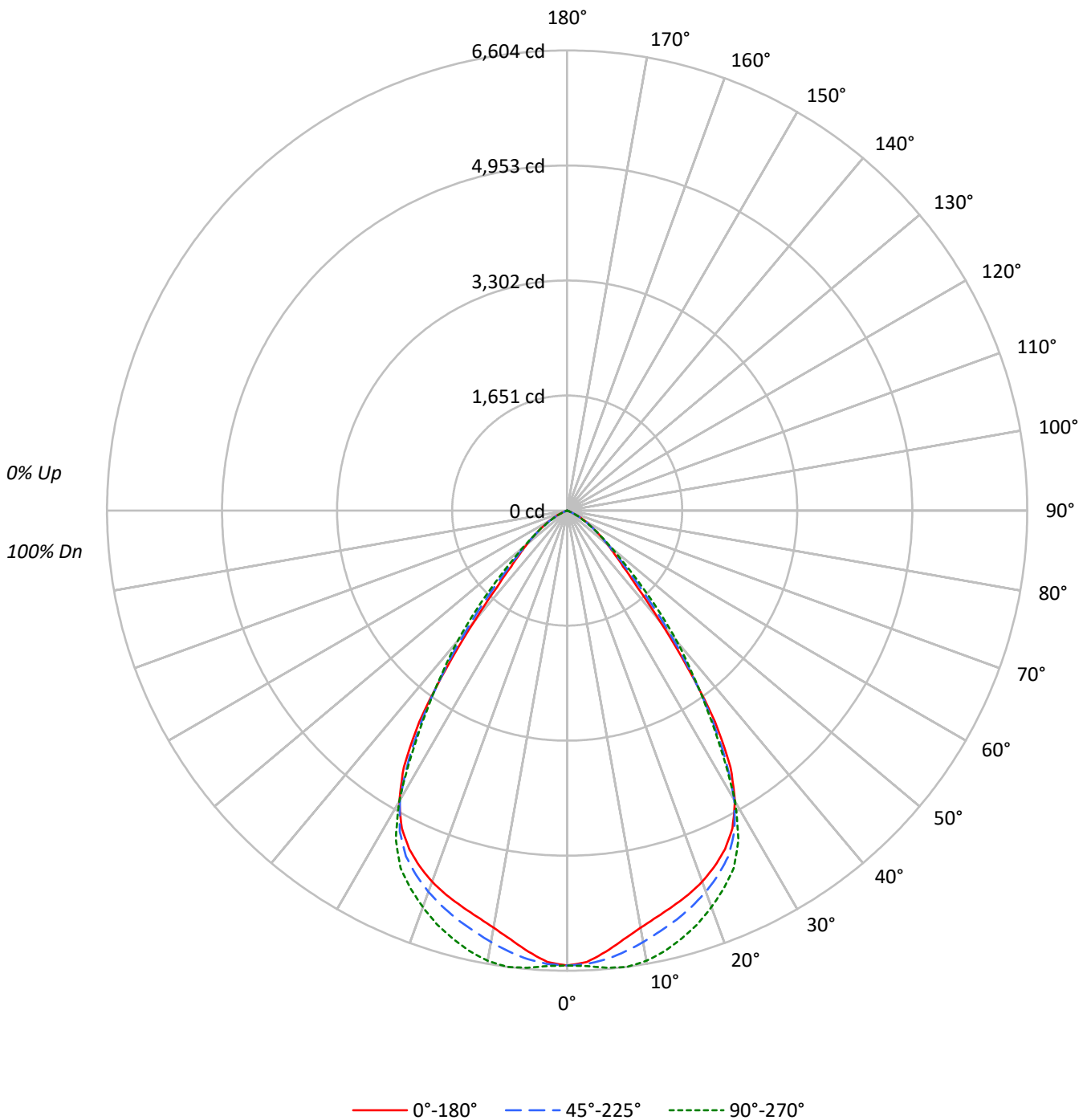
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	201315	201315	201315
5°	196754	200072	203885
10°	190242	196884	205457
15°	187551	193961	202954
20°	185974	191064	198739
25°	182383	186265	192512
30°	171450	170802	171614
35°	139306	134627	132564
40°	82702	91151	98727
45°	49501	55715	63277
50°	36066	36997	39731
55°	26128	25209	25757
60°	17731	16393	15757
65°	8909	8238	7822
70°	2470	2164	1956
75°	953	679	679
80°	408	408	195
85°	389	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	612.1	7.1
10°-20°	1719.0	19.8
20°-30°	2498.4	28.9
30°-40°	2209.4	25.5
40°-50°	1051.1	12.1
50°-60°	437.8	5.1
60°-70°	122.3	1.4
70°-80°	9.2	0.1
80°-90°	0.7	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°	4829.5	55.8
0°-40°	7038.9	81.3
0°-60°	8527.8	98.5
0°-90°	8660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8660.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6528	6528	6528	6528	6528	
5°	6356	6388	6464	6549	6587	598
15°	5875	5928	6076	6260	6357	1659
25°	5360	5384	5474	5595	5658	2450
35°	3701	3648	3576	3522	3522	2215
45°	1135	1175	1278	1396	1451	945
55°	486	480	469	469	479	442
65°	122	120	113	108	107	133
75°	8	7	6	6	6	11
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6528.5	6528.5	6528.5	6528.5	6528.5
2.5°	6485.2	6490.9	6512.6	6533.1	6542.2
5°	6356.3	6388.2	6463.5	6549.1	6586.7
7.5°	6209.1	6257.0	6383.7	6534.2	6603.8
10°	6075.7	6136.1	6287.8	6473.8	6561.6
12.5°	5970.7	6026.6	6181.8	6375.7	6474.9
15°	5874.9	5928.5	6075.7	6260.5	6357.4
17.5°	5779.1	5830.4	5957.0	6129.3	6222.8
20°	5667.3	5708.3	5822.4	5974.1	6056.3
22.5°	5528.1	5565.7	5661.6	5796.2	5870.3
25°	5360.4	5384.4	5474.5	5595.4	5658.1
27.5°	5138.0	5143.7	5198.4	5277.1	5323.9
30°	4815.1	4811.7	4796.9	4793.5	4819.7
32.5°	4363.4	4313.2	4226.5	4185.4	4153.5
35°	3700.6	3648.1	3576.3	3521.5	3521.5
37.5°	2829.1	2874.7	2903.2	2937.4	2954.6
40°	2054.5	2121.8	2264.4	2412.7	2452.6
42.5°	1493.2	1556.0	1710.0	1875.4	1923.3
45°	1135.1	1175.0	1277.6	1396.3	1451.0
47.5°	917.2	928.6	979.9	1050.6	1076.9
50°	751.8	755.2	771.2	807.7	828.2
52.5°	608.0	605.7	610.3	620.6	629.7
55°	486.0	480.3	468.9	468.9	479.1
57.5°	375.3	367.3	354.8	349.1	345.6
60°	287.5	279.5	265.8	256.7	255.5
62.5°	206.5	199.6	185.9	178.0	175.7
65°	122.1	119.8	112.9	108.4	107.2
67.5°	57.0	54.8	49.1	46.8	45.6
70°	27.4	26.2	24.0	22.8	21.7
72.5°	13.7	13.7	11.4	11.4	11.4
75°	8.0	6.8	5.7	5.7	5.7
77.5°	4.6	3.4	3.4	3.4	3.4
80°	2.3	2.3	2.3	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	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)