

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: P247627

Luminaire Tested: **LSR8B90D010 EC8B90830 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247627  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90830 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8422.0 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

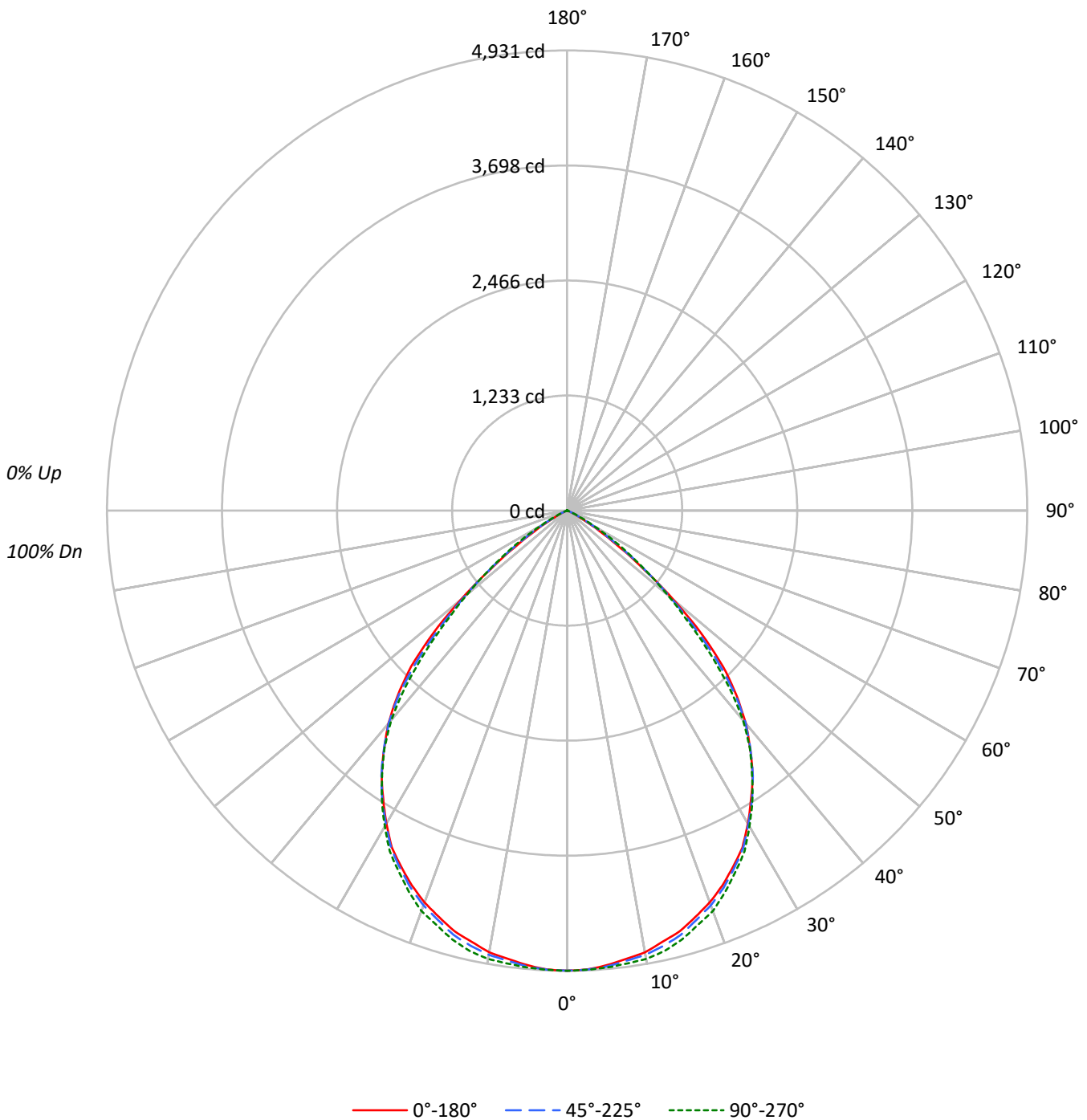
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

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

	0°	45°	90°
0°	152060	152060	152060
5°	151369	151771	152139
10°	150507	151322	152746
15°	148990	150267	151892
20°	146609	147676	149841
25°	143201	143976	145266
30°	137908	138254	139140
35°	130430	130633	130102
40°	119852	119719	118065
45°	103061	98858	94322
50°	71652	69105	67181
55°	37380	40644	43031
60°	15165	17904	20771
65°	4823	5925	6319
70°	685	388	198
75°	0	0	0
80°	1723	391	568
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.7	5.5
10°-20°	1325.2	15.7
20°-30°	1946.8	23.1
30°-40°	2155.4	25.6
40°-50°	1717.8	20.4
50°-60°	703.8	8.4
60°-70°	103.6	1.2
70°-80°	1.5	0.0
80°-90°	2.1	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°	3737.8	44.4
0°-40°	5893.2	70.0
0°-60°	8314.8	98.7
0°-90°	8422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8422.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4931	4931	4931	4931	4931	
5°	4890	4899	4903	4911	4915	464
15°	4667	4670	4707	4751	4758	1313
25°	4209	4204	4232	4256	4270	1936
35°	3465	3460	3470	3466	3456	2153
45°	2363	2342	2267	2182	2163	1774
55°	695	719	756	799	800	669
65°	66	69	81	89	87	88
75°	0	0	0	0	0	3
85°	0	0	0	4	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4931.2	4931.2	4931.2	4931.2	4931.2
2.5°	4922.6	4923.7	4923.7	4918.2	4924.7
5°	4890.1	4898.7	4903.1	4910.7	4915.0
7.5°	4844.6	4842.4	4865.2	4892.2	4895.5
10°	4806.7	4802.3	4832.7	4868.4	4878.2
12.5°	4731.9	4737.4	4776.4	4813.2	4832.7
15°	4667.0	4670.2	4707.0	4751.4	4757.9
17.5°	4566.2	4576.0	4600.9	4647.5	4656.1
20°	4467.7	4472.0	4500.2	4538.1	4566.2
22.5°	4347.5	4355.0	4376.7	4410.3	4424.4
25°	4208.8	4204.5	4231.6	4256.5	4269.5
27.5°	4068.0	4060.4	4081.0	4104.8	4116.8
30°	3873.1	3870.9	3882.8	3898.0	3907.7
32.5°	3668.4	3673.8	3685.7	3690.0	3693.3
35°	3464.8	3460.4	3470.2	3465.8	3456.1
37.5°	3223.2	3226.5	3226.5	3222.1	3217.8
40°	2977.4	2980.6	2974.1	2950.3	2933.0
42.5°	2689.3	2691.4	2657.9	2604.8	2569.0
45°	2363.3	2341.6	2266.9	2182.4	2162.9
47.5°	1952.8	1916.0	1838.0	1774.1	1751.3
50°	1493.6	1466.5	1440.5	1406.9	1400.4
52.5°	1047.3	1061.4	1071.2	1082.0	1078.7
55°	695.3	719.2	756.0	799.3	800.4
57.5°	418.1	445.1	491.7	539.4	562.1
60°	245.9	256.7	290.3	326.0	336.8
62.5°	133.2	136.5	151.6	187.4	182.0
65°	66.1	69.3	81.2	88.8	86.6
67.5°	32.5	35.7	37.9	48.7	40.1
70°	7.6	2.2	4.3	5.4	2.2
72.5°	0.0	0.0	2.2	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.2	0.0	0.0	0.0	4.3
80°	9.7	6.5	2.2	2.2	3.2
82.5°	3.2	1.1	3.2	1.1	0.0
85°	0.0	0.0	0.0	4.3	0.0
87.5°	5.4	1.1	1.1	3.2	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)