

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: P247623

Luminaire Tested: **LSR8B90D010 EC8B90827 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247623  
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 EC8B90827 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8216.0 lumens  
Efficiency: N/A  
Efficacy: 95.4 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

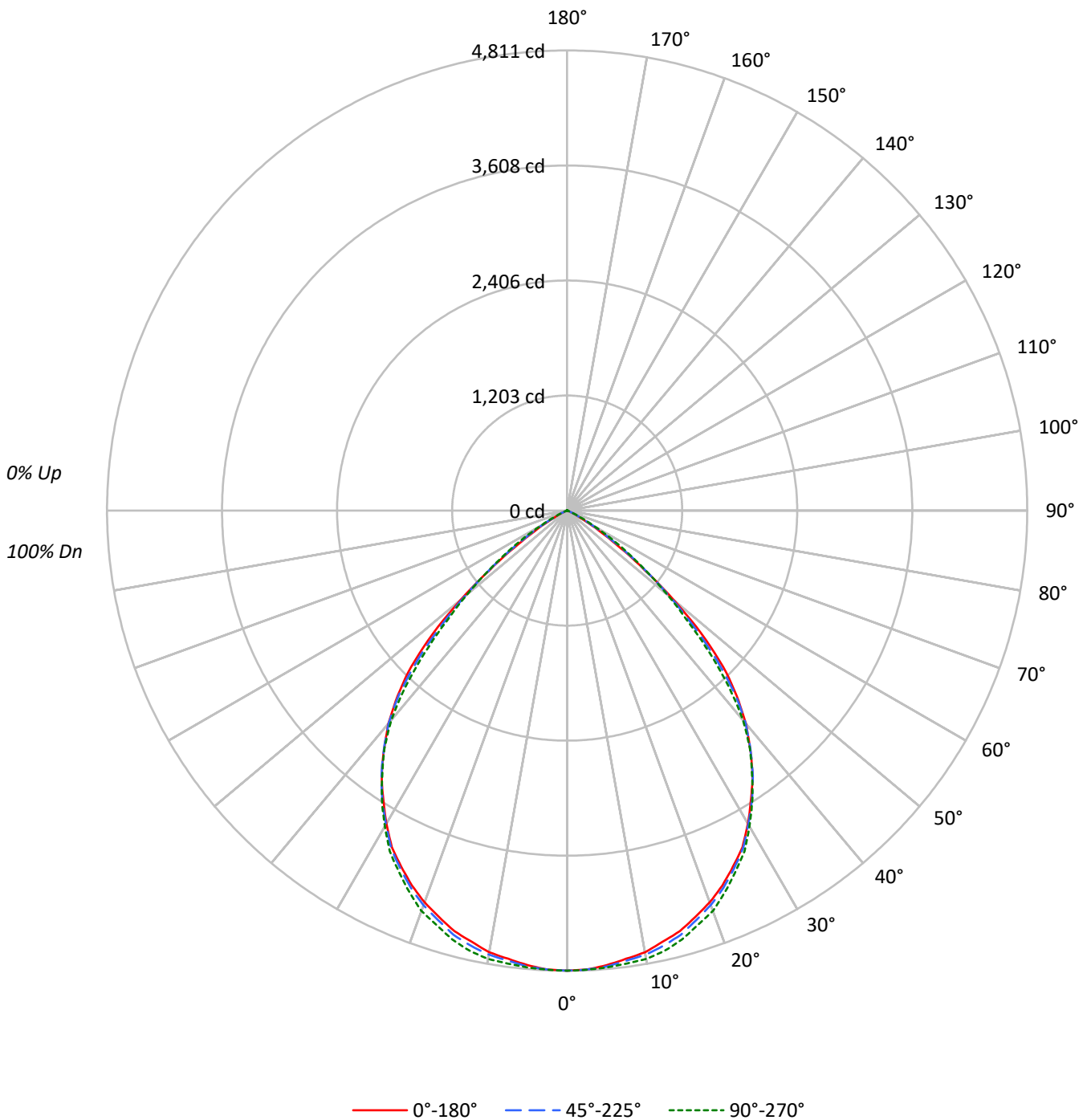
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	148341	148341	148341
5°	147667	148057	148419
10°	146825	147620	149008
15°	145344	146592	148179
20°	143022	144063	146176
25°	139700	140455	141710
30°	134533	134871	135736
35°	127237	127437	126921
40°	116918	116793	115175
45°	100541	96437	92015
50°	69896	67416	65540
55°	36466	39649	41977
60°	14789	17466	20266
65°	4706	5779	6166
70°	667	379	189
75°	0	0	0
80°	1687	373	568
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.3	5.5
10°-20°	1292.8	15.7
20°-30°	1899.2	23.1
30°-40°	2102.7	25.6
40°-50°	1675.7	20.4
50°-60°	686.6	8.4
60°-70°	101.1	1.2
70°-80°	1.4	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°	3646.3	44.4
0°-40°	5749.0	70.0
0°-60°	8111.4	98.7
0°-90°	8216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8216.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4811	4811	4811	4811	4811	
5°	4770	4779	4783	4790	4795	453
15°	4553	4556	4592	4635	4642	1281
25°	4106	4102	4128	4152	4165	1888
35°	3380	3376	3385	3381	3372	2101
45°	2306	2284	2211	2129	2110	1730
55°	678	702	738	780	781	653
65°	64	68	79	87	84	85
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°	4810.6	4810.6	4810.6	4810.6	4810.6
2.5°	4802.2	4803.2	4803.2	4797.9	4804.3
5°	4770.5	4778.9	4783.1	4790.5	4794.8
7.5°	4726.1	4724.0	4746.2	4772.6	4775.7
10°	4689.1	4684.9	4714.5	4749.3	4758.8
12.5°	4616.2	4621.5	4659.5	4695.4	4714.5
15°	4552.8	4556.0	4591.9	4635.2	4641.6
17.5°	4454.5	4464.1	4488.4	4533.8	4542.2
20°	4358.4	4362.6	4390.1	4427.1	4454.5
22.5°	4241.1	4248.5	4269.6	4302.4	4316.1
25°	4105.9	4101.6	4128.1	4152.4	4165.0
27.5°	3968.5	3961.1	3981.2	4004.4	4016.1
30°	3778.3	3776.2	3787.8	3802.6	3812.1
32.5°	3578.6	3583.9	3595.5	3599.8	3602.9
35°	3380.0	3375.8	3385.3	3381.1	3371.6
37.5°	3144.4	3147.6	3147.6	3143.3	3139.1
40°	2904.5	2907.7	2901.4	2878.1	2861.2
42.5°	2623.5	2625.6	2592.9	2541.1	2506.2
45°	2305.5	2284.3	2211.4	2129.0	2110.0
47.5°	1905.0	1869.1	1793.0	1730.7	1708.5
50°	1457.0	1430.6	1405.3	1372.5	1366.2
52.5°	1021.7	1035.5	1045.0	1055.5	1052.4
55°	678.3	701.6	737.5	779.8	780.8
57.5°	407.8	434.3	479.7	526.2	548.4
60°	239.8	250.4	283.2	318.0	328.6
62.5°	130.0	133.1	147.9	182.8	177.5
65°	64.5	67.6	79.2	86.6	84.5
67.5°	31.7	34.9	37.0	47.5	39.1
70°	7.4	2.1	4.2	5.3	2.1
72.5°	0.0	0.0	2.1	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.1	0.0	0.0	0.0	4.2
80°	9.5	6.3	2.1	2.1	3.2
82.5°	3.2	1.1	3.2	1.1	0.0
85°	0.0	0.0	0.0	4.2	0.0
87.5°	5.3	1.1	1.1	3.2	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)