

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: P247654

Luminaire Tested: **LSR8B80D010 EC8B80940 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247654  
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: LSR8B80D010 EC8B80940 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6926.0 lumens  
Efficiency: N/A  
Efficacy: 93.1 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

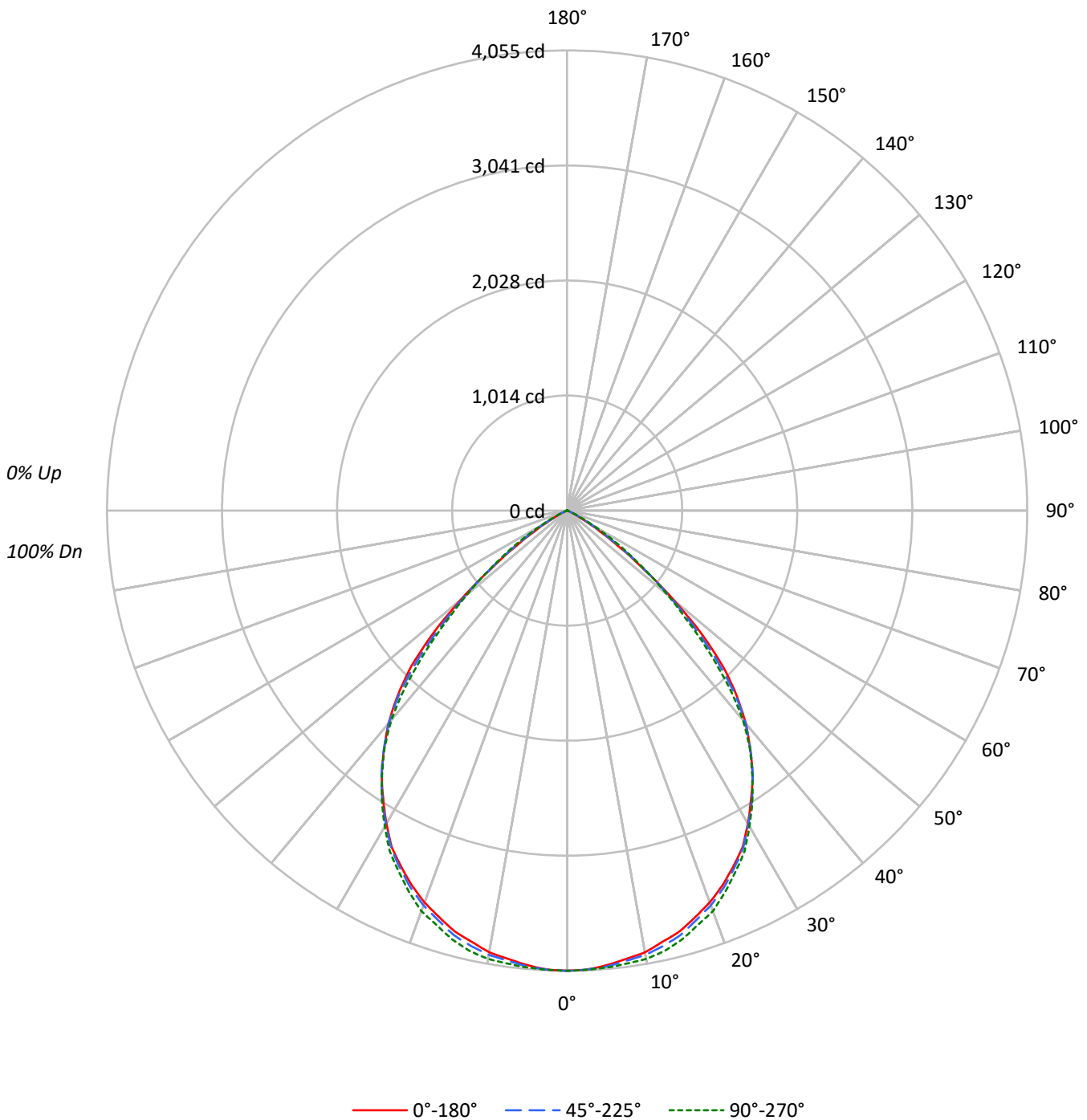
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	125051	125051	125051
5°	124482	124810	125113
10°	123773	124440	125614
15°	122525	123575	124913
20°	120567	121443	123225
25°	117764	118400	119462
30°	113411	113696	114426
35°	107260	107429	106992
40°	98562	98453	97093
45°	84754	81296	77568
50°	58925	56829	55250
55°	30741	33424	35386
60°	12470	14721	17083
65°	3962	4874	5202
70°	559	325	162
75°	0	0	0
80°	1421	320	479
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.0	5.5
10°-20°	1089.8	15.7
20°-30°	1601.0	23.1
30°-40°	1772.5	25.6
40°-50°	1412.6	20.4
50°-60°	578.8	8.4
60°-70°	85.2	1.2
70°-80°	1.2	0.0
80°-90°	1.7	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°	3073.8	44.4
0°-40°	4846.4	70.0
0°-60°	6837.8	98.7
0°-90°	6926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6926.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4055	4055	4055	4055	4055	
5°	4022	4029	4032	4038	4042	382
15°	3838	3841	3871	3907	3913	1080
25°	3461	3458	3480	3500	3511	1592
35°	2849	2846	2854	2850	2842	1771
45°	1944	1926	1864	1795	1779	1458
55°	572	591	622	657	658	550
65°	54	57	67	73	71	72
75°	0	0	0	0	0	2
85°	0	0	0	4	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4055.3	4055.3	4055.3	4055.3	4055.3
2.5°	4048.2	4049.1	4049.1	4044.6	4050.0
5°	4021.5	4028.6	4032.1	4038.4	4041.9
7.5°	3984.0	3982.3	4001.0	4023.2	4025.9
10°	3952.9	3949.3	3974.2	4003.6	4011.7
12.5°	3891.4	3895.9	3927.9	3958.2	3974.2
15°	3838.0	3840.6	3870.9	3907.4	3912.8
17.5°	3755.1	3763.2	3783.6	3821.9	3829.1
20°	3674.1	3677.6	3700.8	3732.0	3755.1
22.5°	3575.2	3581.5	3599.3	3626.9	3638.5
25°	3461.2	3457.6	3479.9	3500.4	3511.1
27.5°	3345.4	3339.2	3356.1	3375.7	3385.5
30°	3185.1	3183.3	3193.1	3205.6	3213.6
32.5°	3016.8	3021.2	3031.0	3034.6	3037.2
35°	2849.3	2845.7	2853.8	2850.2	2842.2
37.5°	2650.7	2653.4	2653.4	2649.8	2646.2
40°	2448.5	2451.2	2445.8	2426.2	2412.0
42.5°	2211.6	2213.4	2185.7	2142.1	2112.7
45°	1943.5	1925.7	1864.2	1794.7	1778.7
47.5°	1605.9	1575.6	1511.5	1458.9	1440.2
50°	1228.3	1206.0	1184.6	1157.0	1151.7
52.5°	861.3	872.9	880.9	889.8	887.1
55°	571.8	591.4	621.7	657.3	658.2
57.5°	343.8	366.1	404.4	443.6	462.3
60°	202.2	211.1	238.7	268.1	277.0
62.5°	109.6	112.2	124.7	154.1	149.6
65°	54.3	57.0	66.8	73.0	71.3
67.5°	26.7	29.4	31.2	40.1	33.0
70°	6.2	1.8	3.6	4.5	1.8
72.5°	0.0	0.0	1.8	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	1.8	0.0	0.0	0.0	3.6
80°	8.0	5.3	1.8	1.8	2.7
82.5°	2.7	0.9	2.7	0.9	0.0
85°	0.0	0.0	0.0	3.6	0.0
87.5°	4.5	0.9	0.9	2.7	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)