

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: P247098

Luminaire Tested: **LSR8B80D010 EC8B80830 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247098  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80830 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9041.0 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

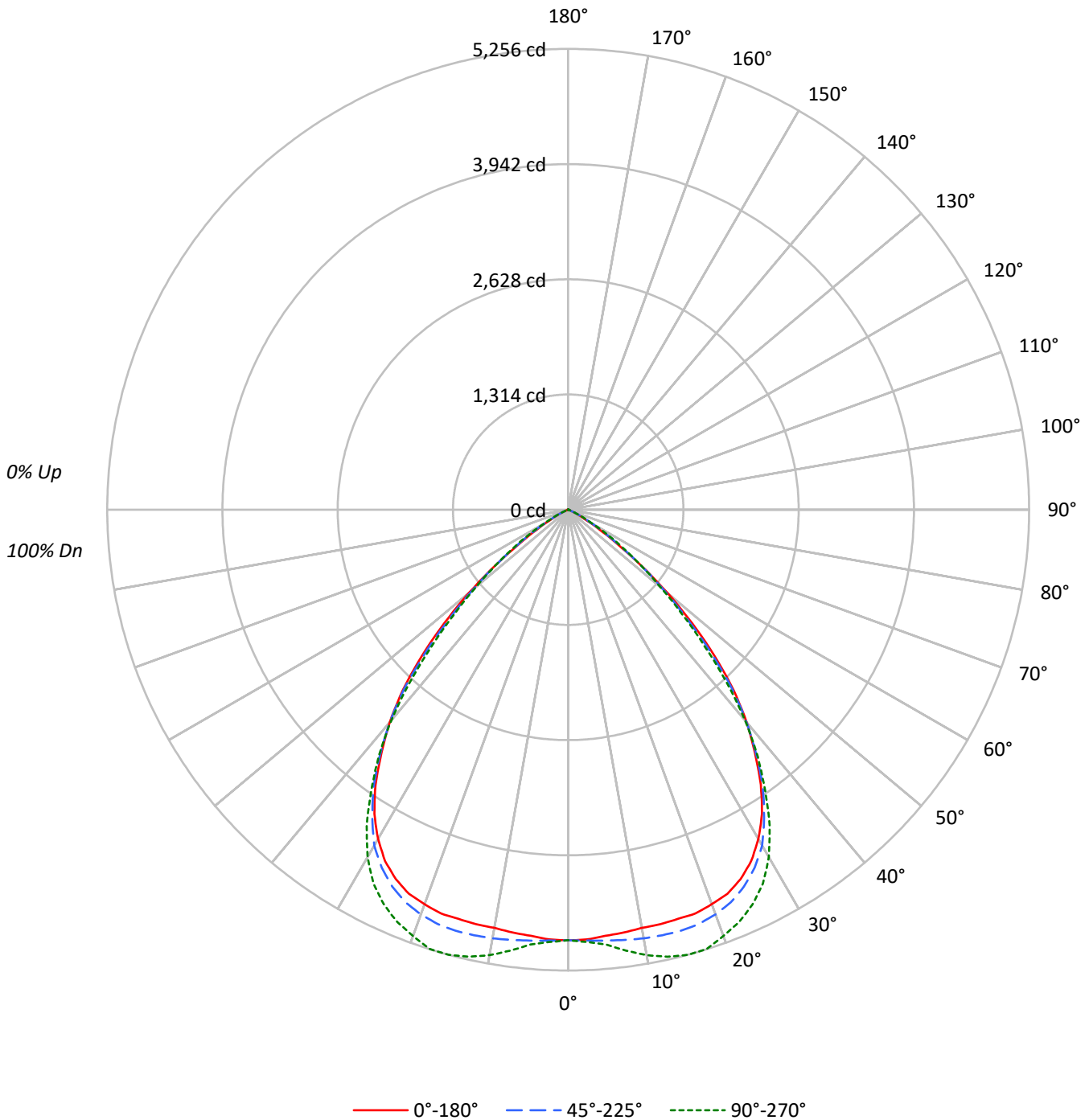
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37					37			

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

	0°	45°	90°
0°	151437	151437	151437
5°	151031	152700	154127
10°	151635	155458	161542
15°	154260	158714	167799
20°	157116	161186	169770
25°	158161	161366	169086
30°	154423	157503	162844
35°	144147	145630	147366
40°	127468	127351	126385
45°	103079	100140	95739
50°	70813	68088	65876
55°	36445	38773	41515
60°	15184	17971	20161
65°	5896	6246	7369
70°	1560	1470	1993
75°	691	1263	1144
80°	1030	1190	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.5	5.2
10°-20°	1414.8	15.6
20°-30°	2189.3	24.2
30°-40°	2397.9	26.5
40°-50°	1754.3	19.4
50°-60°	688.3	7.6
60°-70°	111.4	1.2
70°-80°	10.3	0.1
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°	4076.7	45.1
0°-40°	6474.6	71.6
0°-60°	8917.3	98.6
0°-90°	9041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9041.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4911	4911	4911	4911	4911	
5°	4879	4891	4933	4969	4979	465
15°	4832	4864	4972	5156	5256	1369
25°	4648	4663	4743	4886	4970	2131
35°	3829	3836	3869	3905	3915	2371
45°	2364	2360	2296	2226	2195	1800
55°	678	692	721	747	772	667
65°	81	79	86	94	101	98
75°	6	9	11	8	10	10
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4911.0	4911.0	4911.0	4911.0	4911.0
2.5°	4906.2	4909.1	4918.7	4928.3	4934.1
5°	4879.2	4890.8	4933.1	4968.7	4979.2
7.5°	4862.9	4882.1	4948.5	5037.9	5072.5
10°	4842.7	4870.6	4964.8	5091.8	5159.1
12.5°	4843.7	4870.6	4970.6	5136.0	5222.5
15°	4832.1	4863.9	4971.6	5156.2	5256.2
17.5°	4829.2	4844.6	4954.2	5141.8	5252.3
20°	4787.9	4809.0	4911.9	5078.3	5173.5
22.5°	4742.7	4752.3	4846.5	5010.0	5090.8
25°	4648.5	4662.9	4742.7	4886.0	4969.6
27.5°	4518.6	4521.5	4602.3	4735.0	4808.1
30°	4336.9	4351.3	4423.4	4521.5	4573.4
32.5°	4111.9	4109.9	4157.1	4242.7	4276.3
35°	3829.2	3835.9	3868.6	3905.1	3914.7
37.5°	3497.4	3506.1	3528.2	3540.7	3549.3
40°	3166.6	3166.6	3163.7	3150.3	3139.7
42.5°	2789.6	2777.1	2762.7	2703.1	2677.1
45°	2363.7	2359.8	2296.3	2226.1	2195.4
47.5°	1915.5	1894.4	1828.0	1771.3	1758.8
50°	1476.1	1454.0	1419.3	1391.5	1373.2
52.5°	1052.0	1035.7	1050.1	1050.1	1048.2
55°	677.9	692.4	721.2	747.2	772.2
57.5°	429.8	449.1	493.3	527.0	535.6
60°	246.2	260.6	291.4	321.2	326.9
62.5°	154.8	155.8	176.0	193.3	203.9
65°	80.8	78.9	85.6	94.2	101.0
67.5°	33.7	33.7	40.4	39.4	50.0
70°	17.3	14.4	16.3	19.2	22.1
72.5°	12.5	9.6	13.5	17.3	7.7
75°	5.8	8.7	10.6	7.7	9.6
77.5°	7.7	7.7	5.8	9.6	1.9
80°	5.8	3.8	6.7	2.9	0.0
82.5°	1.0	1.9	1.0	1.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	2.9	4.8	3.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)