

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: P247102

Luminaire Tested: **LSR8B80D010 EC8B80835 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247102  
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 EC8B80835 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9402.0 lumens  
Efficiency: N/A  
Efficacy: 126.4 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

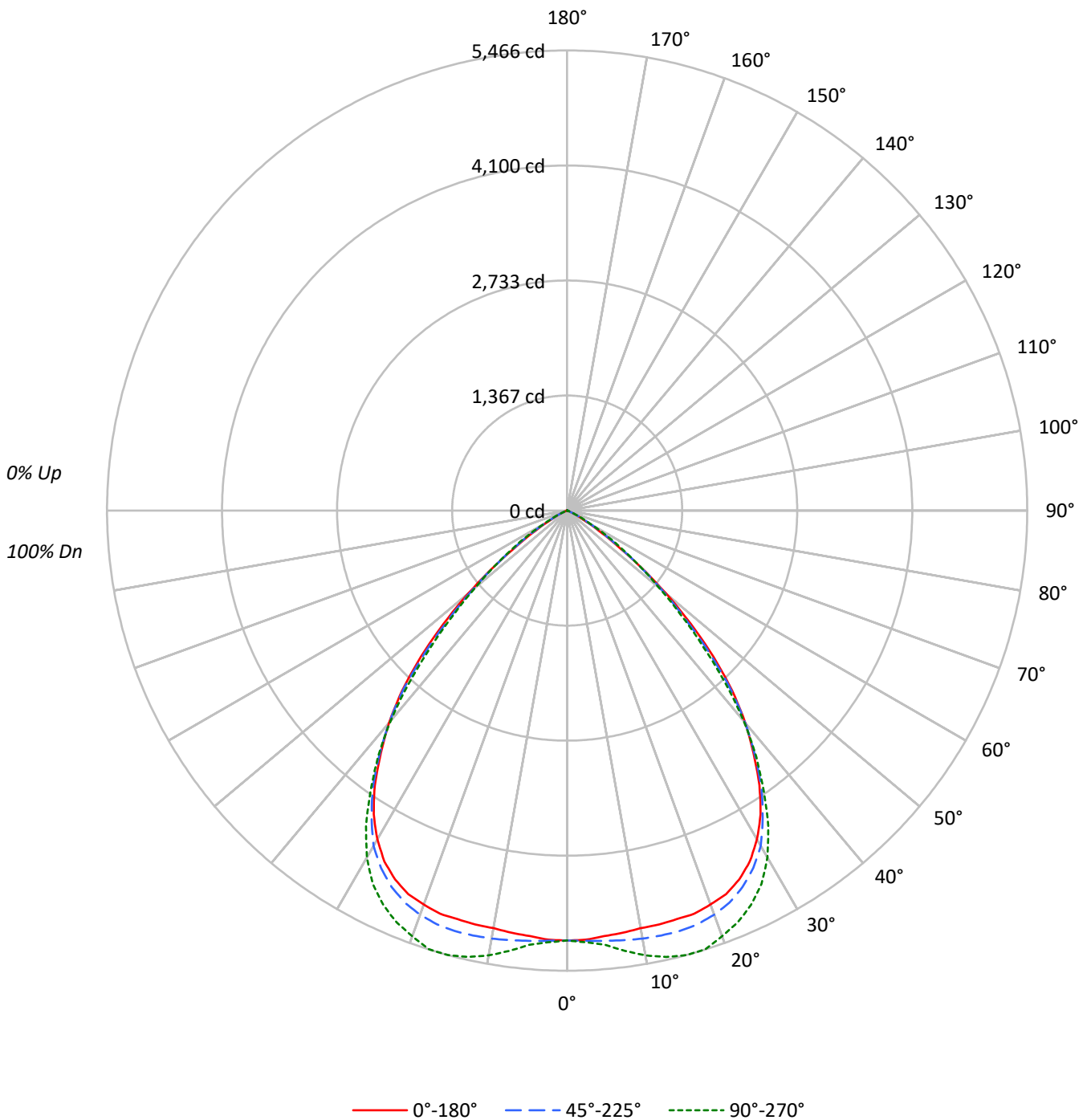
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	157484	157484	157484
5°	157064	158798	160283
10°	157690	161667	167992
15°	160422	165051	174500
20°	163391	167624	176550
25°	164476	167810	175840
30°	160590	163794	169349
35°	149903	151446	153253
40°	132556	132435	131429
45°	107191	104139	99560
50°	73638	70808	68505
55°	37902	40321	43170
60°	15788	18687	20969
65°	6129	6494	7661
70°	1623	1533	2074
75°	715	1311	1191
80°	1065	1243	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	491.4	5.2
10°-20°	1471.3	15.6
20°-30°	2276.7	24.2
30°-40°	2493.7	26.5
40°-50°	1824.3	19.4
50°-60°	715.8	7.6
60°-70°	115.9	1.2
70°-80°	10.7	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°	4239.5	45.1
0°-40°	6733.2	71.6
0°-60°	9273.3	98.6
0°-90°	9402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9402.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5107	5107	5107	5107	5107	
5°	5074	5086	5130	5167	5178	483
15°	5025	5058	5170	5362	5466	1423
25°	4834	4849	4932	5081	5168	2217
35°	3982	3989	4023	4061	4071	2466
45°	2458	2454	2388	2315	2283	1872
55°	705	720	750	777	803	694
65°	84	82	89	98	105	102
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°	5107.1	5107.1	5107.1	5107.1	5107.1
2.5°	5102.1	5105.1	5115.1	5125.1	5131.1
5°	5074.1	5086.1	5130.1	5167.1	5178.1
7.5°	5057.1	5077.1	5146.1	5239.1	5275.1
10°	5036.1	5065.1	5163.1	5295.1	5365.1
12.5°	5037.1	5065.1	5169.1	5341.1	5431.1
15°	5025.1	5058.1	5170.1	5362.1	5466.1
17.5°	5022.1	5038.1	5152.1	5347.1	5462.1
20°	4979.1	5001.1	5108.1	5281.1	5380.1
22.5°	4932.1	4942.1	5040.1	5210.1	5294.1
25°	4834.1	4849.1	4932.1	5081.1	5168.1
27.5°	4699.1	4702.1	4786.1	4924.1	5000.1
30°	4510.1	4525.1	4600.1	4702.1	4756.1
32.5°	4276.1	4274.1	4323.1	4412.1	4447.1
35°	3982.1	3989.1	4023.1	4061.1	4071.1
37.5°	3637.0	3646.0	3669.0	3682.0	3691.0
40°	3293.0	3293.0	3290.0	3276.0	3265.0
42.5°	2901.0	2888.0	2873.0	2811.0	2784.0
45°	2458.0	2454.0	2388.0	2315.0	2283.0
47.5°	1992.0	1970.0	1901.0	1842.0	1829.0
50°	1535.0	1512.0	1476.0	1447.0	1428.0
52.5°	1094.0	1077.0	1092.0	1092.0	1090.0
55°	705.0	720.0	750.0	777.0	803.0
57.5°	447.0	467.0	513.0	548.0	557.0
60°	256.0	271.0	303.0	334.0	340.0
62.5°	161.0	162.0	183.0	201.0	212.0
65°	84.0	82.0	89.0	98.0	105.0
67.5°	35.0	35.0	42.0	41.0	52.0
70°	18.0	15.0	17.0	20.0	23.0
72.5°	13.0	10.0	14.0	18.0	8.0
75°	6.0	9.0	11.0	8.0	10.0
77.5°	8.0	8.0	6.0	10.0	2.0
80°	6.0	4.0	7.0	3.0	0.0
82.5°	1.0	2.0	1.0	1.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	3.0	5.0	4.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)