

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: P247178

Luminaire Tested: **LSR8B80D010 EC8B80950 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80950 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7777.0 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

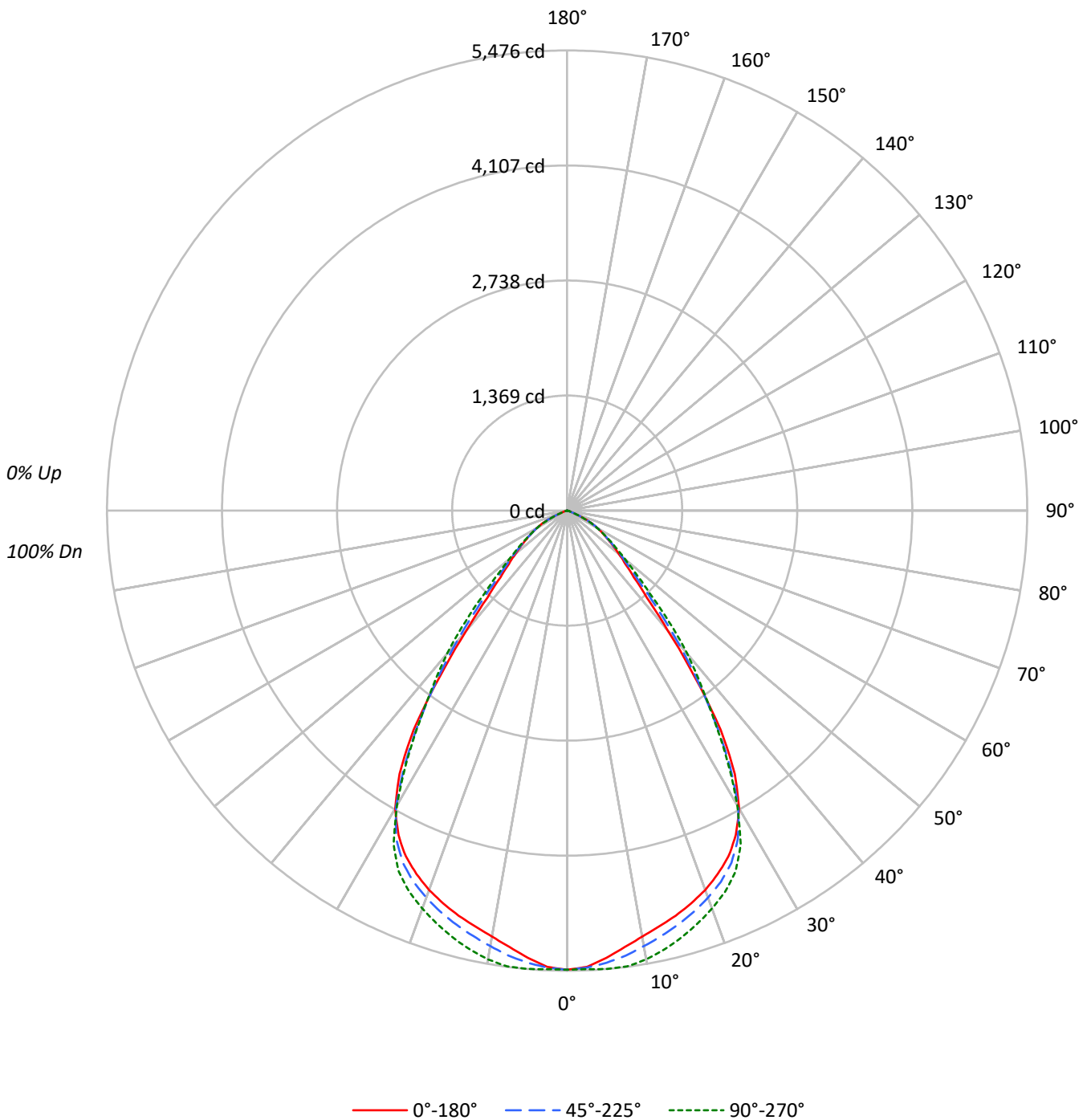
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	168480	168480	168480
5°	165385	167183	169495
10°	161147	164814	169808
15°	159320	162826	167889
20°	157658	160834	165435
25°	154555	157344	161298
30°	145720	145062	144175
35°	119867	115733	115075
40°	75058	82814	89533
45°	48982	54612	60521
50°	38618	40479	43132
55°	31483	32026	33015
60°	25761	25594	25477
65°	16687	16213	15337
70°	5734	5319	4905
75°	1978	1871	1763
80°	817	657	657
85°	318	318	318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.8	6.6
10°-20°	1442.0	18.5
20°-30°	2109.0	27.1
30°-40°	1911.0	24.6
40°-50°	1016.1	13.1
50°-60°	542.3	7.0
60°-70°	221.2	2.8
70°-80°	22.3	0.3
80°-90°	1.3	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°	4062.8	52.2
0°-40°	5973.8	76.8
0°-60°	7532.2	96.9
0°-90°	7777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7777.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5464	5464	5464	5464	5464	
5°	5343	5357	5401	5450	5476	504
15°	4991	5019	5100	5206	5259	1408
25°	4542	4562	4624	4704	4741	2076
35°	3184	3140	3074	3051	3057	1914
45°	1123	1156	1252	1352	1388	919
55°	586	585	596	604	614	531
65°	229	228	222	209	210	228
75°	17	17	16	15	15	24
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5463.7	5463.7	5463.7	5463.7	5463.7
2.5°	5434.2	5433.3	5443.4	5455.4	5461.9
5°	5342.9	5356.7	5401.0	5449.9	5475.7
7.5°	5239.6	5265.4	5342.0	5425.9	5471.1
10°	5146.5	5179.7	5263.6	5373.3	5423.1
12.5°	5066.3	5098.5	5183.4	5295.9	5350.3
15°	4990.6	5019.2	5100.4	5205.5	5259.0
17.5°	4903.0	4930.7	5009.1	5108.7	5154.8
20°	4804.4	4827.4	4901.2	4994.3	5041.4
22.5°	4681.7	4706.6	4781.3	4867.1	4911.3
25°	4542.5	4561.8	4624.5	4703.9	4740.7
27.5°	4348.8	4366.3	4403.2	4445.7	4473.3
30°	4092.5	4087.9	4074.0	4061.1	4049.1
32.5°	3714.4	3670.1	3602.8	3560.4	3562.2
35°	3184.2	3139.9	3074.4	3051.4	3056.9
37.5°	2487.9	2521.1	2547.9	2592.1	2613.4
40°	1864.6	1921.7	2057.3	2175.3	2224.2
42.5°	1401.7	1457.9	1599.9	1724.4	1791.7
45°	1123.2	1156.4	1252.3	1351.9	1387.8
47.5°	940.6	955.3	1010.7	1074.3	1105.6
50°	805.0	814.3	843.8	878.8	899.1
52.5°	689.8	693.5	708.2	728.5	741.4
55°	585.6	584.6	595.7	604.0	614.1
57.5°	495.2	494.3	494.3	497.0	503.5
60°	417.7	415.0	415.0	411.3	413.1
62.5°	340.3	337.5	331.0	326.4	324.6
65°	228.7	227.8	222.2	209.3	210.2
67.5°	119.0	118.0	112.5	108.8	107.0
70°	63.6	61.8	59.0	56.3	54.4
72.5°	32.3	31.4	30.4	28.6	28.6
75°	16.6	16.6	15.7	14.8	14.8
77.5°	8.3	8.3	7.4	7.4	7.4
80°	4.6	4.6	3.7	3.7	3.7
82.5°	1.8	1.8	1.8	1.8	1.8
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)