

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: P247242

Luminaire Tested: **LSR8B80D010 EC8B80830 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80830 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7933.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

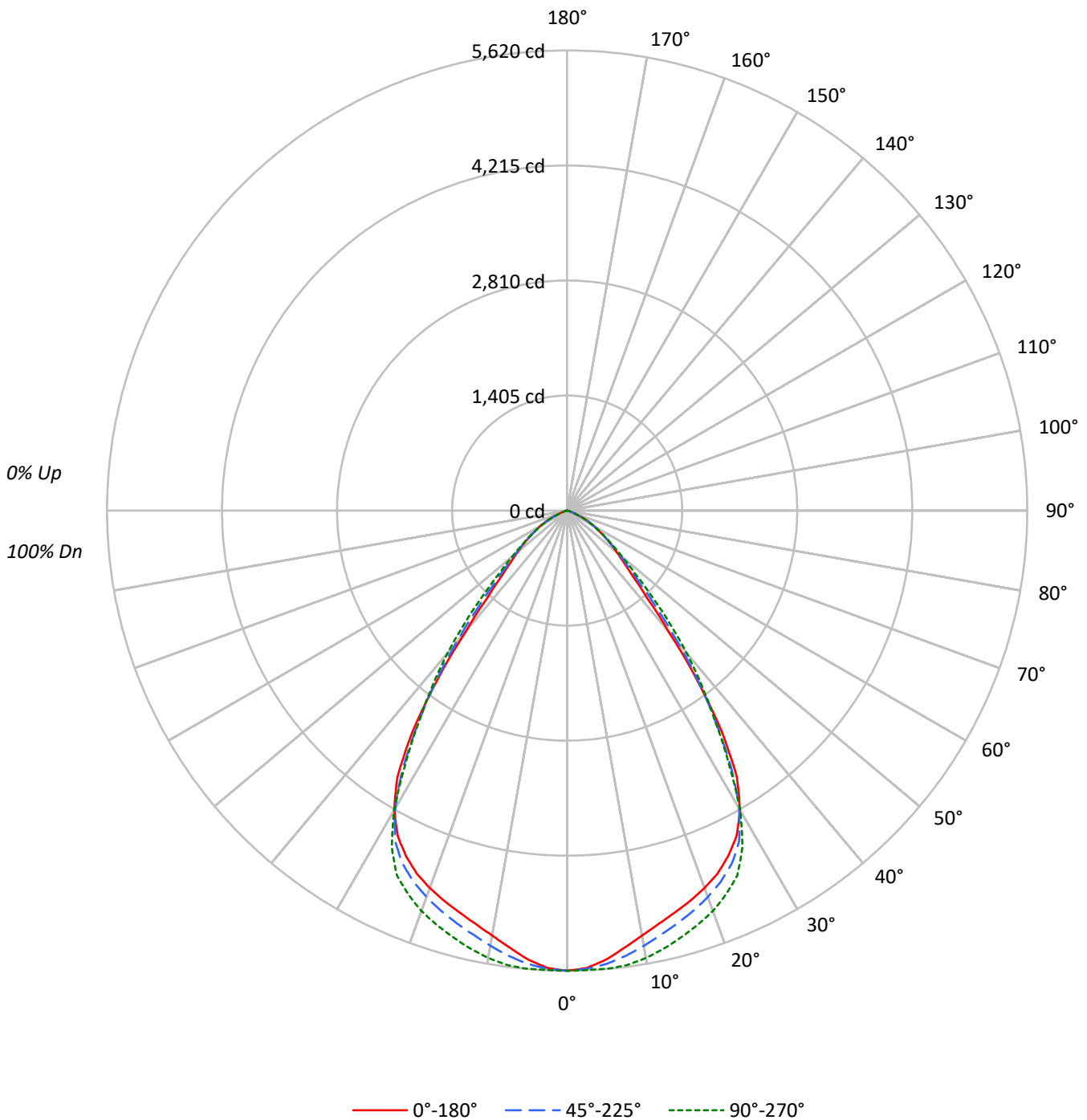
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	173288	173288	173288
5°	170319	171953	173860
10°	164999	169003	173700
15°	162210	166507	172186
20°	160930	164812	170777
25°	158386	161887	167317
30°	150275	149659	150620
35°	123872	119490	119200
40°	77610	84537	91546
45°	49191	54681	61559
50°	37875	39347	42115
55°	29983	29881	30967
60°	23368	22893	22776
65°	15717	15082	14666
70°	7195	6591	6239
75°	3431	3098	2859
80°	1705	1545	1545
85°	1026	1026	672



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.5	6.6
10°-20°	1475.7	18.6
20°-30°	2173.4	27.4
30°-40°	1976.8	24.9
40°-50°	1023.3	12.9
50°-60°	512.7	6.5
60°-70°	208.8	2.6
70°-80°	33.3	0.4
80°-90°	3.6	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°	4174.6	52.6
0°-40°	6151.4	77.5
0°-60°	7687.3	96.9
0°-90°	7933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5620	5620	5620	5620	5620	
5°	5502	5517	5555	5598	5617	518
15°	5081	5116	5216	5336	5394	1436
25°	4655	4687	4758	4867	4918	2131
35°	3291	3269	3174	3147	3166	1984
45°	1128	1167	1254	1351	1412	929
55°	558	556	556	566	576	507
65°	215	214	207	204	201	217
75°	29	28	26	24	24	36
85°	3	3	3	2	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5619.6	5619.6	5619.6	5619.6	5619.6
2.5°	5589.8	5592.6	5600.3	5609.0	5615.7
5°	5502.3	5516.7	5555.1	5597.5	5616.7
7.5°	5383.0	5414.7	5484.9	5563.8	5598.4
10°	5269.5	5306.1	5397.4	5503.2	5547.4
12.5°	5169.5	5205.1	5304.2	5422.4	5477.3
15°	5081.1	5115.7	5215.7	5335.9	5393.6
17.5°	4997.4	5029.1	5124.3	5244.5	5303.2
20°	4904.1	4932.0	5022.4	5138.8	5204.2
22.5°	4798.4	4819.5	4904.1	5014.7	5072.4
25°	4655.1	4686.8	4758.0	4866.6	4917.6
27.5°	4480.1	4500.3	4549.3	4615.7	4636.8
30°	4220.4	4219.5	4203.1	4203.1	4230.1
32.5°	3859.8	3813.7	3735.8	3688.7	3684.8
35°	3290.6	3269.4	3174.2	3147.3	3166.5
37.5°	2596.3	2610.7	2634.8	2673.2	2707.9
40°	1928.0	1964.5	2100.1	2221.3	2274.2
42.5°	1438.5	1485.7	1624.1	1756.8	1821.3
45°	1128.0	1167.4	1253.9	1351.0	1411.6
47.5°	932.7	952.9	999.1	1064.5	1095.3
50°	789.5	799.1	820.2	853.9	877.9
52.5°	670.2	666.4	677.9	700.0	708.7
55°	557.7	555.8	555.8	566.4	576.0
57.5°	462.5	459.6	453.9	458.7	461.6
60°	378.9	376.0	371.2	370.2	369.3
62.5°	304.8	300.0	290.4	288.5	288.5
65°	215.4	214.4	206.7	203.9	201.0
67.5°	133.7	129.8	123.1	117.3	116.4
70°	79.8	78.9	73.1	69.2	69.2
72.5°	48.1	46.2	43.3	41.3	40.4
75°	28.8	27.9	26.0	24.0	24.0
77.5°	17.3	16.3	15.4	14.4	14.4
80°	9.6	9.6	8.7	8.7	8.7
82.5°	5.8	5.8	4.8	4.8	4.8
85°	2.9	2.9	2.9	1.9	1.9
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)