

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: P247462

Luminaire Tested: **LSR8B80D010 EC8B80940 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80940 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8312.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

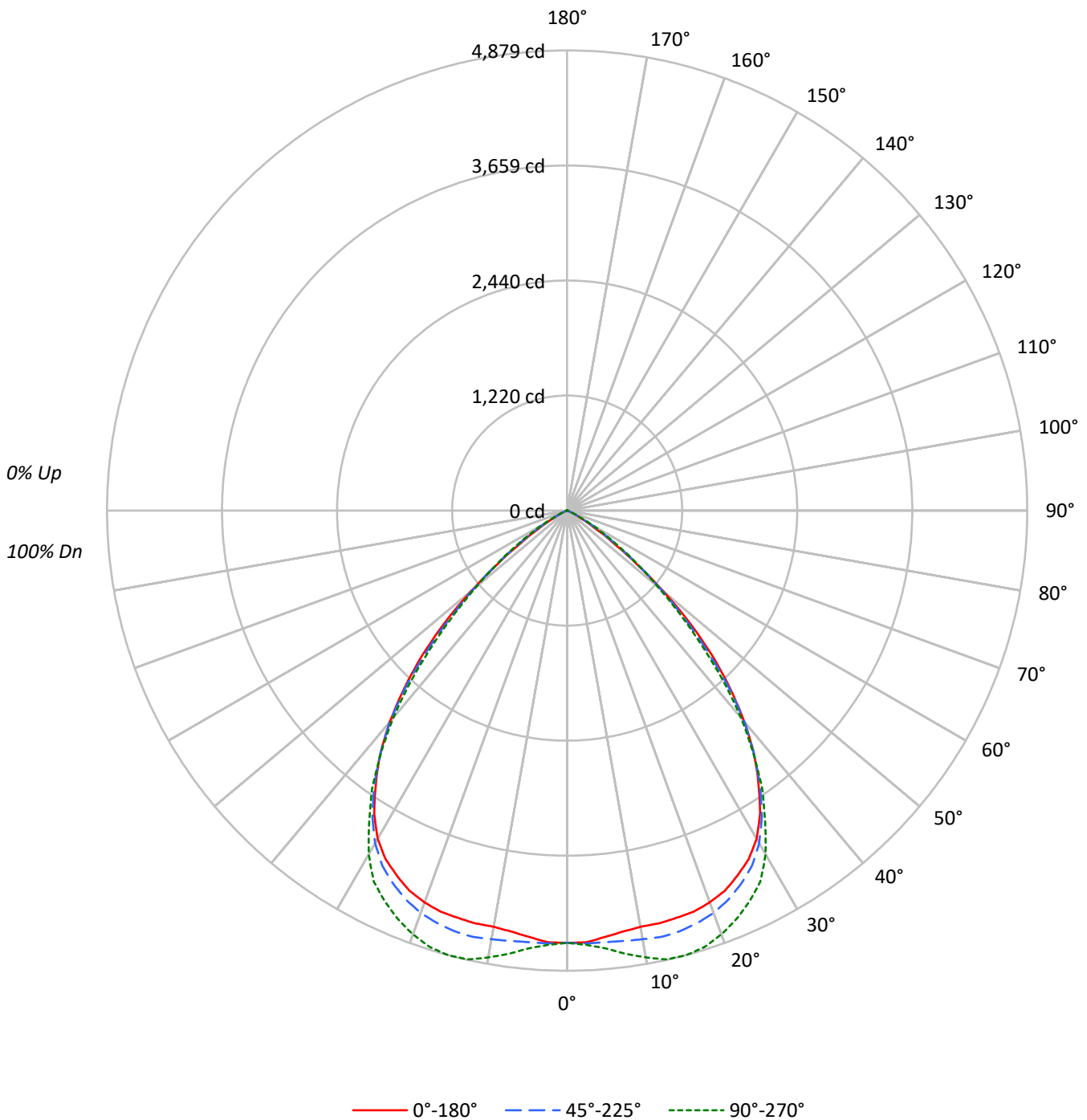
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	94	93	91					91			
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	141314	141314	141314
5°	140532	142212	144197
10°	140287	144499	150633
15°	142745	147410	155767
20°	145063	148952	156900
25°	145317	148529	155558
30°	143100	144969	149790
35°	133181	134055	135730
40°	117711	117566	115452
45°	94815	91283	87746
50°	63669	62000	59908
55°	32321	35101	37257
60°	13241	16208	18896
65°	4940	5261	6173
70°	325	325	243
75°	631	1060	1382
80°	160	0	0
85°	637	0	637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.1	5.3
10°-20°	1311.5	15.8
20°-30°	2018.1	24.3
30°-40°	2210.4	26.6
40°-50°	1607.2	19.3
50°-60°	618.3	7.4
60°-70°	96.8	1.2
70°-80°	7.0	0.1
80°-90°	2.8	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°	3769.6	45.4
0°-40°	5980.0	71.9
0°-60°	8205.4	98.7
0°-90°	8312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4583	4583	4583	4583	4583	
5°	4540	4563	4594	4638	4658	431
15°	4471	4506	4618	4788	4879	1265
25°	4271	4297	4365	4494	4572	1964
35°	3538	3538	3561	3583	3606	2197
45°	2174	2152	2093	2040	2012	1653
55°	601	617	653	674	693	587
65°	68	70	72	82	85	83
75°	5	12	9	12	12	7
85°	2	0	0	0	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4582.7	4582.7	4582.7	4582.7	4582.7
2.5°	4581.8	4588.9	4593.4	4603.2	4607.7
5°	4540.0	4563.1	4594.3	4637.9	4658.4
7.5°	4503.4	4535.5	4602.3	4696.7	4738.6
10°	4480.3	4515.0	4614.8	4743.0	4810.7
12.5°	4483.0	4521.3	4629.0	4783.1	4874.0
15°	4471.4	4506.1	4617.5	4788.5	4879.3
17.5°	4458.0	4486.5	4585.4	4752.8	4850.8
20°	4420.6	4444.7	4539.1	4690.5	4781.3
22.5°	4364.5	4386.8	4465.1	4605.9	4689.6
25°	4271.0	4296.8	4365.4	4494.5	4572.0
27.5°	4166.8	4181.9	4245.1	4362.7	4436.6
30°	4018.9	4024.2	4071.4	4162.3	4206.8
32.5°	3807.8	3806.9	3842.5	3888.0	3904.9
35°	3537.9	3537.9	3561.1	3583.3	3605.6
37.5°	3257.3	3253.8	3256.4	3261.8	3243.1
40°	2924.2	2917.1	2920.6	2888.6	2868.1
42.5°	2559.0	2565.3	2529.6	2472.6	2451.2
45°	2174.2	2152.0	2093.2	2039.7	2012.1
47.5°	1765.4	1730.7	1674.5	1619.3	1614.9
50°	1327.2	1328.9	1292.4	1261.2	1248.8
52.5°	921.0	930.8	949.5	953.1	957.5
55°	601.2	617.3	652.9	674.3	693.0
57.5°	367.9	397.3	427.5	467.6	471.2
60°	214.7	228.9	262.8	293.0	306.4
62.5°	121.1	134.5	141.6	159.4	163.9
65°	67.7	70.4	72.1	81.9	84.6
67.5°	41.0	42.8	44.5	43.6	45.4
70°	3.6	8.0	3.6	4.5	2.7
72.5°	15.1	9.8	10.7	8.0	5.3
75°	5.3	11.6	8.9	11.6	11.6
77.5°	3.6	2.7	4.5	5.3	4.5
80°	0.9	0.0	0.0	0.0	0.0
82.5°	8.0	7.1	4.5	7.1	2.7
85°	1.8	0.0	0.0	0.0	1.8
87.5°	5.3	2.7	2.7	6.2	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)