

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: P247530

Luminaire Tested: **LSR8B80D010 EC8B80830 8LBSOGPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80830 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8037.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

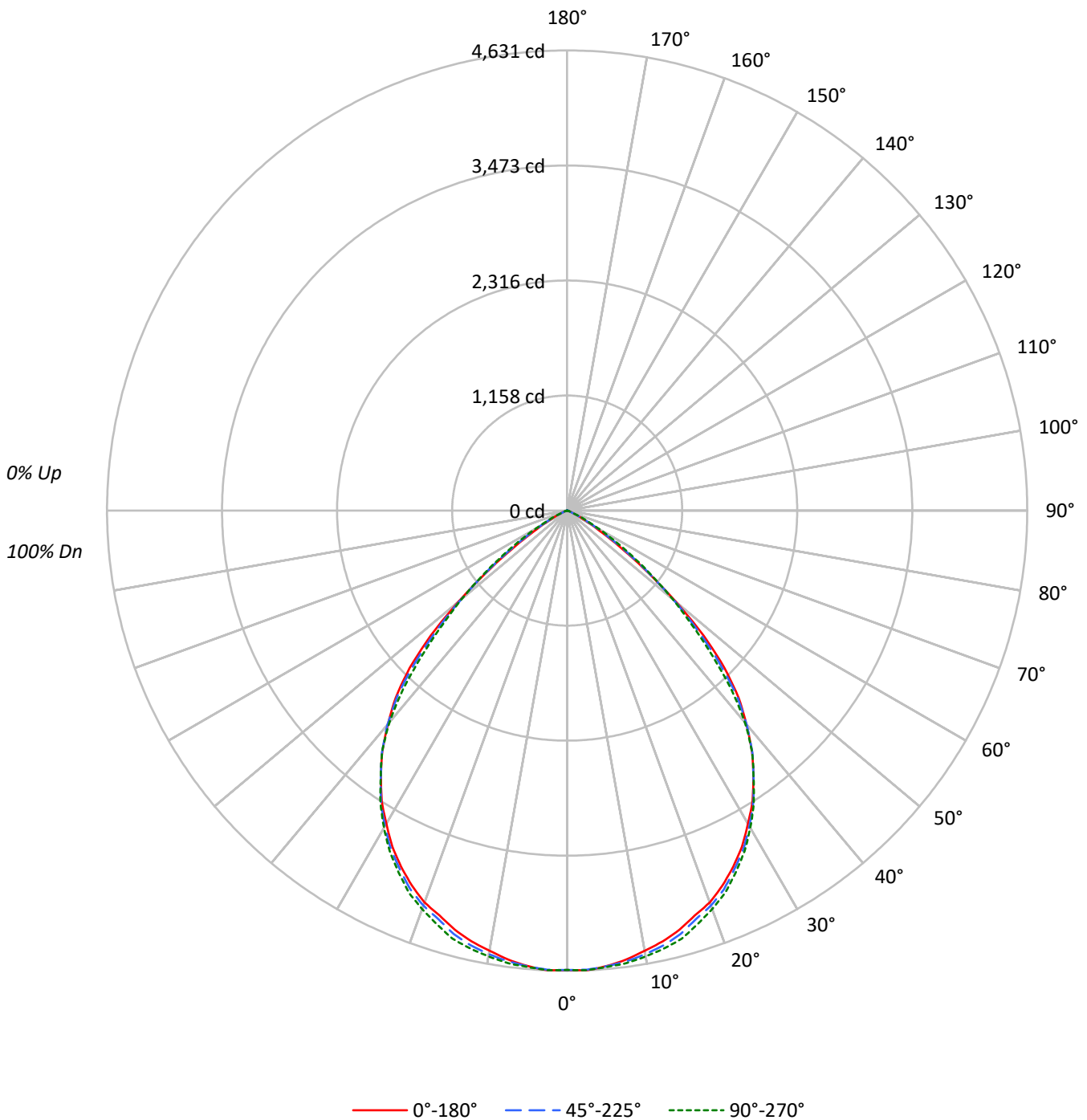
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	142572	142572	142572
5°	142401	142463	142671
10°	140857	141940	142664
15°	139406	140849	142381
20°	137713	138815	140013
25°	134538	135521	136634
30°	129601	130595	131278
35°	122972	123078	123115
40°	112993	113186	112027
45°	97754	94313	90118
50°	68553	67167	66294
55°	37224	40326	42961
60°	16430	20044	22714
65°	6311	7931	9471
70°	3210	2858	3733
75°	1037	1942	1716
80°	852	178	1030
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.3	5.4
10°-20°	1242.0	15.5
20°-30°	1831.7	22.8
30°-40°	2038.8	25.4
40°-50°	1640.8	20.4
50°-60°	697.7	8.7
60°-70°	130.8	1.6
70°-80°	15.9	0.2
80°-90°	2.0	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°	3511.1	43.7
0°-40°	5549.9	69.1
0°-60°	7888.4	98.2
0°-90°	8037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4624	4624	4624	4624	4624	
5°	4600	4601	4602	4610	4609	436
15°	4367	4391	4412	4446	4460	1230
25°	3954	3969	3983	4006	4016	1817
35°	3267	3268	3270	3270	3270	2034
45°	2242	2223	2163	2097	2066	1685
55°	692	708	750	780	799	659
65°	86	96	109	116	130	112
75°	9	11	16	15	14	14
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4623.5	4623.5	4623.5	4623.5	4623.5
2.5°	4631.2	4634.1	4624.5	4626.4	4629.3
5°	4600.4	4601.4	4602.4	4610.1	4609.1
7.5°	4557.2	4563.9	4575.4	4589.9	4593.7
10°	4498.5	4515.8	4533.1	4550.4	4556.2
12.5°	4440.8	4451.4	4482.2	4499.5	4513.9
15°	4366.8	4390.8	4412.0	4445.6	4460.0
17.5°	4272.5	4289.8	4310.0	4343.7	4363.9
20°	4196.6	4201.4	4230.2	4260.0	4266.7
22.5°	4084.0	4094.6	4124.4	4144.6	4161.9
25°	3954.2	3968.6	3983.1	4006.1	4015.8
27.5°	3811.9	3820.6	3840.7	3857.1	3865.8
30°	3639.8	3659.0	3667.7	3675.3	3686.9
32.5°	3472.4	3478.2	3485.9	3490.7	3496.5
35°	3266.7	3267.6	3269.5	3270.5	3270.5
37.5°	3056.1	3062.8	3060.9	3055.1	3058.0
40°	2807.0	2818.5	2811.8	2794.5	2783.0
42.5°	2556.0	2550.2	2527.2	2475.2	2451.2
45°	2241.6	2223.3	2162.7	2097.3	2066.5
47.5°	1864.6	1824.2	1773.2	1722.3	1702.1
50°	1429.0	1423.2	1400.1	1379.9	1381.9
52.5°	1024.1	1038.6	1043.4	1062.6	1072.2
55°	692.4	707.8	750.1	779.9	799.1
57.5°	421.2	451.0	496.2	545.2	570.2
60°	266.4	283.7	325.0	356.8	368.3
62.5°	166.4	167.3	187.5	212.5	223.1
65°	86.5	96.2	108.7	116.4	129.8
67.5°	53.9	53.9	52.9	64.4	72.1
70°	35.6	30.8	31.7	38.5	41.4
72.5°	12.5	21.2	19.2	19.2	13.5
75°	8.7	10.6	16.3	15.4	14.4
77.5°	11.5	10.6	7.7	6.7	13.5
80°	4.8	3.8	1.0	5.8	5.8
82.5°	4.8	1.9	5.8	7.7	4.8
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)