

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: P247558

Luminaire Tested: **LSR8B80D010 EC8B80940 8LBSOGPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247558
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 EC8B80940 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7444.0 lumens
Efficiency: N/A
Efficacy: 100.1 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

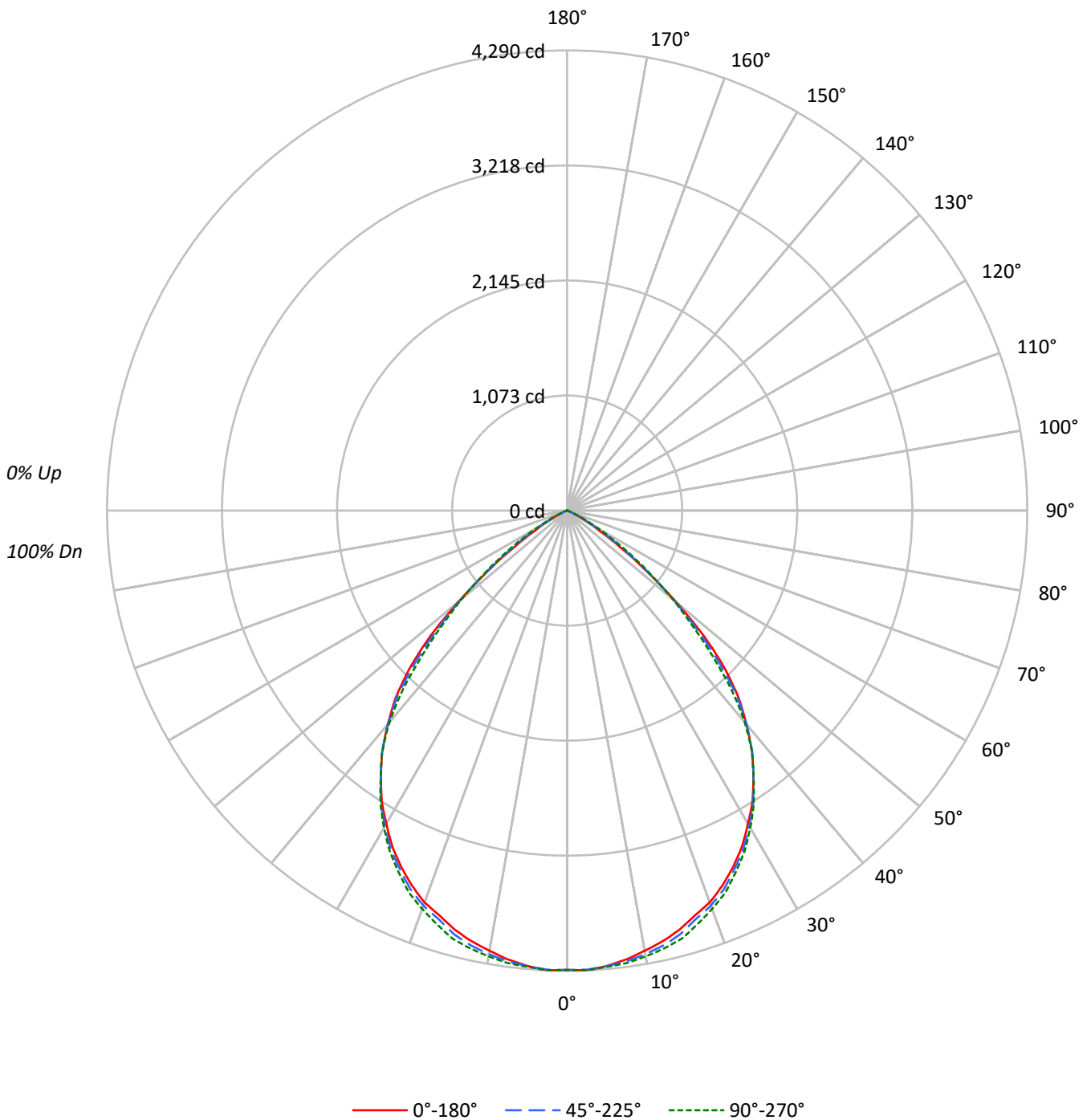
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	132053	132053	132053
5°	131895	131951	132143
10°	130465	131470	132137
15°	129120	130455	131878
20°	127550	128574	129683
25°	124613	125522	126553
30°	120037	120956	121593
35°	113896	113998	114032
40°	104656	104833	103759
45°	90541	87353	83472
50°	63492	62211	61400
55°	34477	37348	39794
60°	15215	18563	21037
65°	5852	7340	8770
70°	2975	2651	3453
75°	953	1799	1597
80°	799	160	941
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.1	5.4
10°-20°	1150.4	15.5
20°-30°	1696.5	22.8
30°-40°	1888.3	25.4
40°-50°	1519.7	20.4
50°-60°	646.2	8.7
60°-70°	121.1	1.6
70°-80°	14.7	0.2
80°-90°	1.8	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°	3252.0	43.7
0°-40°	5140.4	69.1
0°-60°	7306.3	98.2
0°-90°	7444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4282	4282	4282	4282	4282	
5°	4261	4262	4263	4270	4269	404
15°	4045	4067	4086	4118	4131	1140
25°	3662	3676	3689	3711	3720	1683
35°	3026	3026	3028	3029	3029	1884
45°	2076	2059	2003	1943	1914	1561
55°	641	656	695	722	740	611
65°	80	89	101	108	120	104
75°	8	10	15	14	13	13
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°	4282.4	4282.4	4282.4	4282.4	4282.4
2.5°	4289.5	4292.2	4283.3	4285.0	4287.7
5°	4261.0	4261.9	4262.8	4269.9	4269.0
7.5°	4220.9	4227.2	4237.8	4251.2	4254.8
10°	4166.6	4182.6	4198.7	4214.7	4220.0
12.5°	4113.1	4122.9	4151.4	4167.5	4180.8
15°	4044.6	4066.8	4086.4	4117.6	4131.0
17.5°	3957.3	3973.3	3992.0	4023.2	4041.9
20°	3886.9	3891.4	3918.1	3945.7	3951.9
22.5°	3782.7	3792.5	3820.1	3838.8	3854.8
25°	3662.5	3675.8	3689.2	3710.6	3719.5
27.5°	3530.6	3538.7	3557.4	3572.5	3580.5
30°	3371.2	3389.0	3397.0	3404.2	3414.9
32.5°	3216.2	3221.6	3228.7	3233.2	3238.5
35°	3025.6	3026.5	3028.3	3029.2	3029.2
37.5°	2830.6	2836.8	2835.0	2829.7	2832.4
40°	2599.9	2610.6	2604.3	2588.3	2577.6
42.5°	2367.4	2362.1	2340.7	2292.6	2270.3
45°	2076.2	2059.2	2003.1	1942.6	1914.1
47.5°	1727.0	1689.6	1642.4	1595.2	1576.5
50°	1323.5	1318.2	1296.8	1278.1	1279.9
52.5°	948.6	961.9	966.4	984.2	993.1
55°	641.3	655.5	694.7	722.3	740.2
57.5°	390.1	417.7	459.6	505.0	528.2
60°	246.7	262.7	301.0	330.4	341.1
62.5°	154.1	155.0	173.7	196.8	206.6
65°	80.2	89.1	100.6	107.8	120.2
67.5°	49.9	49.9	49.0	59.7	66.8
70°	33.0	28.5	29.4	35.6	38.3
72.5°	11.6	19.6	17.8	17.8	12.5
75°	8.0	9.8	15.1	14.3	13.4
77.5°	10.7	9.8	7.1	6.2	12.5
80°	4.5	3.6	0.9	5.3	5.3
82.5°	4.5	1.8	5.3	7.1	4.5
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)