

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: P247564

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBSOGPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247564
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: LSR8B100D010 EC8B100950 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10016.0 lumens
Efficiency: N/A
Efficacy: 94.2 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

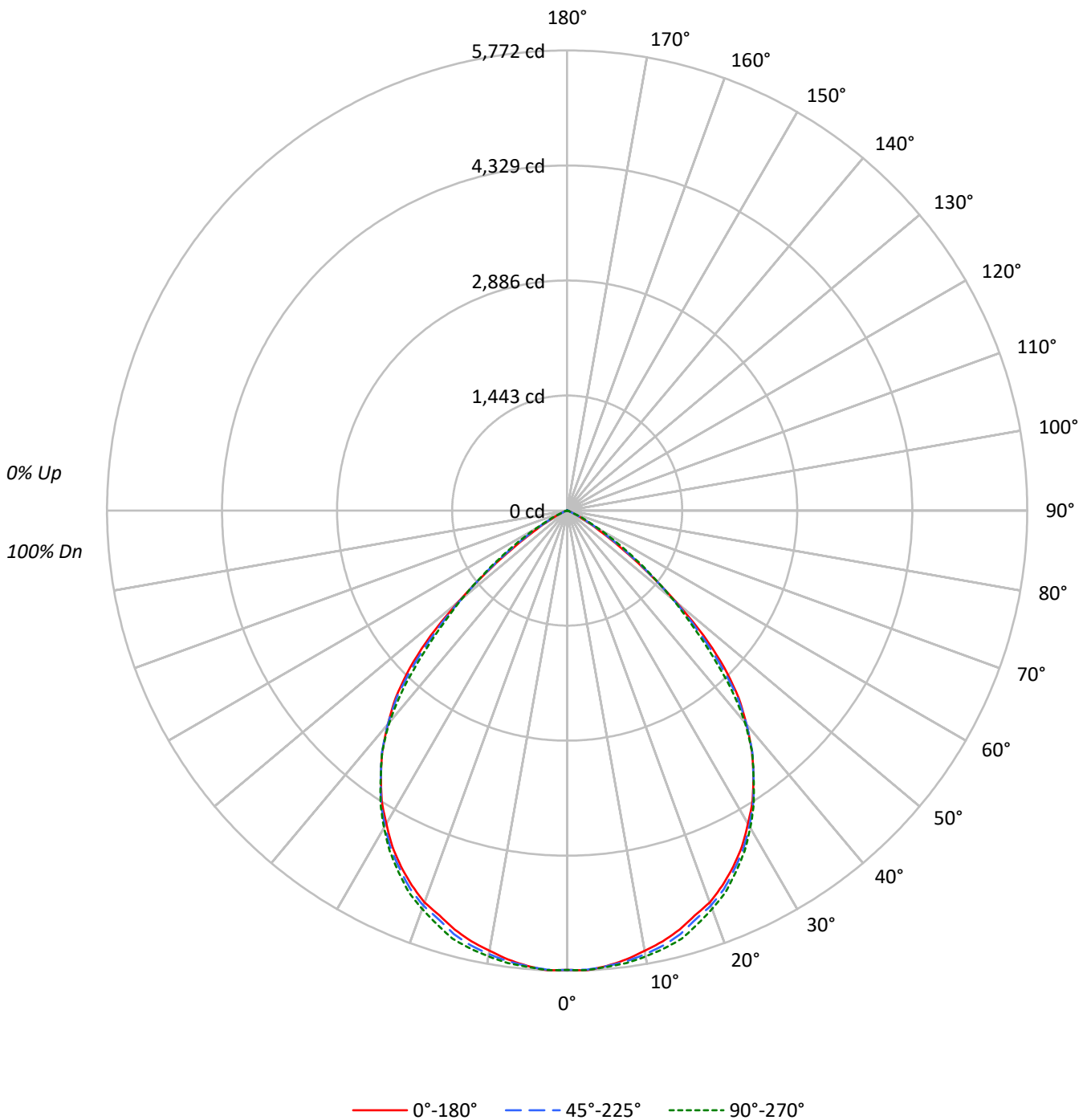
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	177679	177679	177679
5°	177466	177540	177800
10°	175541	176891	177793
15°	173731	175528	177444
20°	171621	172996	174492
25°	167667	168889	170277
30°	161512	162751	163602
35°	153249	153385	153430
40°	140816	141058	139609
45°	121822	117535	112311
50°	85430	83708	82614
55°	46391	50256	53541
60°	20475	24984	28308
65°	7873	9879	11806
70°	3994	3561	4643
75°	1287	2431	2145
80°	1065	213	1279
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.0	5.4
10°-20°	1547.9	15.5
20°-30°	2282.7	22.8
30°-40°	2540.8	25.4
40°-50°	2044.8	20.4
50°-60°	869.5	8.7
60°-70°	163.0	1.6
70°-80°	19.8	0.2
80°-90°	2.5	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
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0°-30°	4375.7	43.7
0°-40°	6916.4	69.1
0°-60°	9830.8	98.2
0°-90°	10016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5762	5762	5762	5762	5762	
5°	5733	5734	5736	5745	5744	543
15°	5442	5472	5498	5540	5558	1533
25°	4928	4946	4964	4993	5005	2265
35°	4071	4072	4075	4076	4076	2535
45°	2794	2771	2695	2614	2575	2100
55°	863	882	935	972	996	822
65°	108	120	135	145	162	140
75°	11	13	20	19	18	17
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°	5762.0	5762.0	5762.0	5762.0	5762.0
2.5°	5771.6	5775.2	5763.2	5765.6	5769.2
5°	5733.2	5734.4	5735.6	5745.2	5744.0
7.5°	5679.3	5687.7	5702.1	5720.0	5724.8
10°	5606.2	5627.8	5649.3	5670.9	5678.1
12.5°	5534.3	5547.5	5585.8	5607.4	5625.4
15°	5442.0	5472.0	5498.3	5540.3	5558.3
17.5°	5324.6	5346.1	5371.3	5413.3	5438.4
20°	5229.9	5235.9	5271.8	5309.0	5317.4
22.5°	5089.7	5102.9	5140.0	5165.2	5186.8
25°	4927.9	4945.9	4963.8	4992.6	5004.6
27.5°	4750.5	4761.3	4786.5	4806.9	4817.6
30°	4536.0	4560.0	4570.8	4580.4	4594.7
32.5°	4327.5	4334.7	4344.3	4350.3	4357.4
35°	4071.0	4072.2	4074.6	4075.8	4075.8
37.5°	3808.6	3817.0	3814.6	3807.4	3811.0
40°	3498.2	3512.6	3504.2	3482.6	3468.2
42.5°	3185.4	3178.2	3149.4	3084.7	3054.8
45°	2793.5	2770.7	2695.2	2613.7	2575.4
47.5°	2323.7	2273.4	2209.9	2146.4	2121.2
50°	1780.8	1773.7	1744.9	1719.7	1722.1
52.5°	1276.3	1294.3	1300.3	1324.3	1336.2
55°	862.9	882.0	934.8	971.9	995.9
57.5°	524.9	562.1	618.4	679.5	710.7
60°	332.0	353.5	405.1	444.6	459.0
62.5°	207.3	208.5	233.7	264.9	278.0
65°	107.9	119.8	135.4	145.0	161.8
67.5°	67.1	67.1	65.9	80.3	89.9
70°	44.3	38.3	39.5	47.9	51.5
72.5°	15.6	26.4	24.0	24.0	16.8
75°	10.8	13.2	20.4	19.2	18.0
77.5°	14.4	13.2	9.6	8.4	16.8
80°	6.0	4.8	1.2	7.2	7.2
82.5°	6.0	2.4	7.2	9.6	6.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.2	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)