

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: P247223

Luminaire Tested: **LSR8B90D010 EC8B90940 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90940 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9187.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

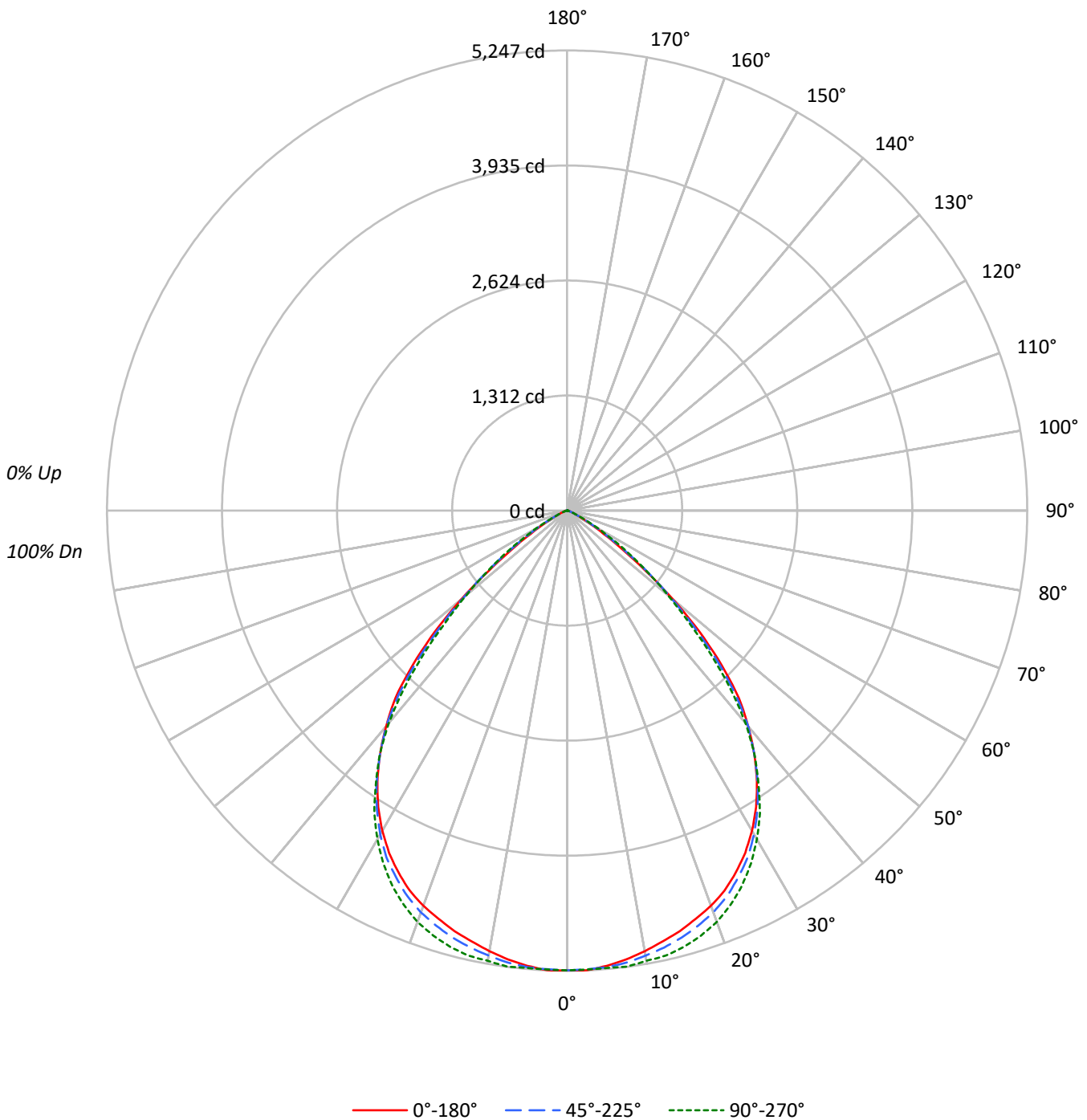
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	161669	161669	161669
5°	161262	161729	162069
10°	159735	161335	163220
15°	158468	160968	164425
20°	157363	159962	163814
25°	154898	157048	160529
30°	150100	151745	154067
35°	141960	142604	143131
40°	129308	129187	127452
45°	108718	105438	100885
50°	75514	73825	71854
55°	40396	44660	47299
60°	19550	22214	25058
65°	8566	8639	9004
70°	4616	4256	4156
75°	4063	3705	2633
80°	178	710	0
85°	354	354	1769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.7	5.4
10°-20°	1424.3	15.5
20°-30°	2125.2	23.1
30°-40°	2353.6	25.6
40°-50°	1835.5	20.0
50°-60°	769.3	8.4
60°-70°	154.1	1.7
70°-80°	24.5	0.3
80°-90°	3.8	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°	4046.1	44.0
0°-40°	6399.7	69.7
0°-60°	9004.6	98.0
0°-90°	9187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9187.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5243	5243	5243	5243	5243	
5°	5210	5214	5225	5239	5236	494
15°	4964	4986	5042	5116	5150	1400
25°	4553	4571	4616	4687	4718	2092
35°	3771	3765	3788	3806	3802	2344
45°	2493	2482	2418	2344	2313	1886
55°	751	780	831	864	880	732
65°	117	117	118	127	123	142
75°	34	31	31	24	22	28
85°	1	2	1	0	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5242.8	5242.8	5242.8	5242.8	5242.8
2.5°	5246.8	5236.8	5234.8	5240.8	5236.8
5°	5209.7	5213.7	5224.8	5238.8	5235.8
7.5°	5161.6	5168.6	5198.7	5234.8	5243.8
10°	5101.4	5116.4	5152.5	5193.7	5212.7
12.5°	5031.1	5051.2	5103.4	5162.6	5197.7
15°	4963.9	4986.0	5042.2	5116.4	5150.5
17.5°	4879.7	4908.8	4963.9	5044.2	5079.3
20°	4795.4	4821.5	4874.6	4952.9	4992.0
22.5°	4691.1	4710.1	4760.3	4826.5	4866.6
25°	4552.6	4570.7	4615.8	4687.0	4718.1
27.5°	4398.1	4419.2	4460.3	4509.5	4537.6
30°	4215.5	4232.6	4261.7	4305.8	4326.9
32.5°	4009.9	4010.9	4040.0	4073.1	4092.1
35°	3771.1	3765.1	3788.2	3806.2	3802.2
37.5°	3507.3	3508.3	3506.3	3508.3	3512.3
40°	3212.3	3198.3	3209.3	3184.2	3166.2
42.5°	2899.3	2885.3	2842.1	2786.9	2756.8
45°	2493.0	2482.0	2417.8	2343.5	2313.4
47.5°	2046.6	2012.5	1960.3	1897.1	1868.0
50°	1574.1	1570.0	1538.9	1523.9	1497.8
52.5°	1125.6	1125.6	1163.7	1157.7	1156.7
55°	751.4	780.5	830.7	863.8	879.8
57.5°	489.6	516.7	558.8	593.9	610.0
60°	317.0	330.1	360.2	387.2	406.3
62.5°	196.6	207.7	223.7	240.8	247.8
65°	117.4	117.4	118.4	127.4	123.4
67.5°	79.3	82.3	78.3	78.3	88.3
70°	51.2	48.2	47.2	46.1	46.1
72.5°	33.1	28.1	30.1	32.1	28.1
75°	34.1	31.1	31.1	24.1	22.1
77.5°	12.0	13.0	9.0	7.0	6.0
80°	1.0	4.0	4.0	1.0	0.0
82.5°	12.0	11.0	9.0	14.0	9.0
85°	1.0	2.0	1.0	0.0	5.0
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)