

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: P247191

Luminaire Tested: **LSR8B90D010 EC8B90827 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247191
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 EC8B90827 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9677.0 lumens
Efficiency: N/A
Efficacy: 112.4 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

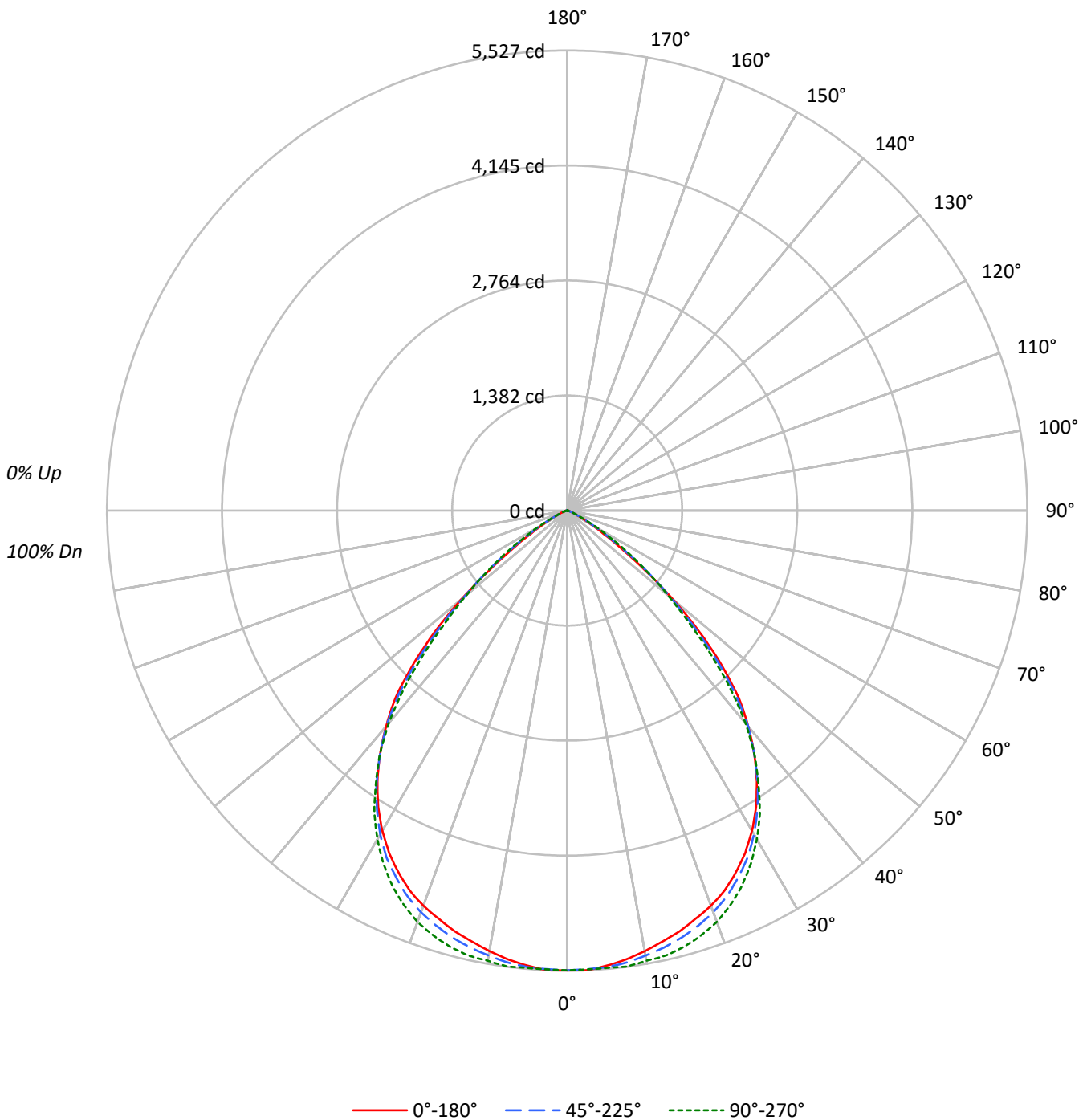
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	170294	170294	170294
5°	169864	170353	170715
10°	168255	169943	171928
15°	166922	169552	173195
20°	165757	168494	172553
25°	163159	165425	169093
30°	158108	159839	162285
35°	149530	150208	150765
40°	136203	136078	134247
45°	114518	111059	106267
50°	79539	77764	75687
55°	42552	47041	49826
60°	20592	23399	26396
65°	9018	9099	9485
70°	4860	4481	4382
75°	4277	3908	2764
80°	195	746	0
85°	389	389	1875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.1	5.4
10°-20°	1500.2	15.5
20°-30°	2238.5	23.1
30°-40°	2479.1	25.6
40°-50°	1933.4	20.0
50°-60°	810.4	8.4
60°-70°	162.3	1.7
70°-80°	25.8	0.3
80°-90°	4.0	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°	4261.9	44.0
0°-40°	6741.1	69.7
0°-60°	9484.8	98.0
0°-90°	9677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5522	5522	5522	5522	5522	
5°	5488	5492	5503	5518	5515	520
15°	5229	5252	5311	5389	5425	1475
25°	4795	4814	4862	4937	4970	2204
35°	3972	3966	3990	4009	4005	2469
45°	2626	2614	2547	2468	2437	1987
55°	792	822	875	910	927	771
65°	124	124	125	134	130	149
75°	36	33	33	25	23	29
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°	5522.5	5522.5	5522.5	5522.5	5522.5
2.5°	5526.7	5516.1	5514.0	5520.3	5516.1
5°	5487.6	5491.8	5503.4	5518.2	5515.1
7.5°	5436.9	5444.3	5476.0	5514.0	5523.5
10°	5373.5	5389.3	5427.4	5470.7	5490.8
12.5°	5299.5	5320.6	5375.6	5437.9	5474.9
15°	5228.7	5251.9	5311.1	5389.3	5425.2
17.5°	5139.9	5170.6	5228.7	5313.2	5350.2
20°	5051.2	5078.6	5134.6	5217.1	5258.3
22.5°	4941.3	4961.3	5014.2	5083.9	5126.2
25°	4795.4	4814.5	4862.0	4937.0	4969.8
27.5°	4632.7	4654.9	4698.2	4750.0	4779.6
30°	4440.4	4458.3	4489.0	4535.5	4557.7
32.5°	4223.7	4224.8	4255.4	4290.3	4310.4
35°	3972.2	3965.9	3990.2	4009.2	4005.0
37.5°	3694.3	3695.4	3693.3	3695.4	3699.6
40°	3383.6	3368.8	3380.5	3354.1	3335.0
42.5°	3053.9	3039.2	2993.7	2935.6	2903.9
45°	2626.0	2614.3	2546.7	2468.5	2436.8
47.5°	2155.7	2119.8	2064.8	1998.3	1967.6
50°	1658.0	1653.8	1621.0	1605.2	1577.7
52.5°	1185.6	1185.6	1225.8	1219.5	1218.4
55°	791.5	822.1	875.0	909.8	926.8
57.5°	515.7	544.2	588.6	625.6	642.5
60°	333.9	347.7	379.4	407.9	428.0
62.5°	207.1	218.7	235.7	253.6	261.0
65°	123.6	123.6	124.7	134.2	130.0
67.5°	83.5	86.7	82.4	82.4	93.0
70°	53.9	50.7	49.7	48.6	48.6
72.5°	34.9	29.6	31.7	33.8	29.6
75°	35.9	32.8	32.8	25.4	23.2
77.5°	12.7	13.7	9.5	7.4	6.3
80°	1.1	4.2	4.2	1.1	0.0
82.5°	12.7	11.6	9.5	14.8	9.5
85°	1.1	2.1	1.1	0.0	5.3
87.5°	0.0	0.0	0.0	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)