

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: P247199

Luminaire Tested: **LSR8B90D010 EC8B90835 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247199
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 EC8B90835 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10315.0 lumens
Efficiency: N/A
Efficacy: 119.8 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

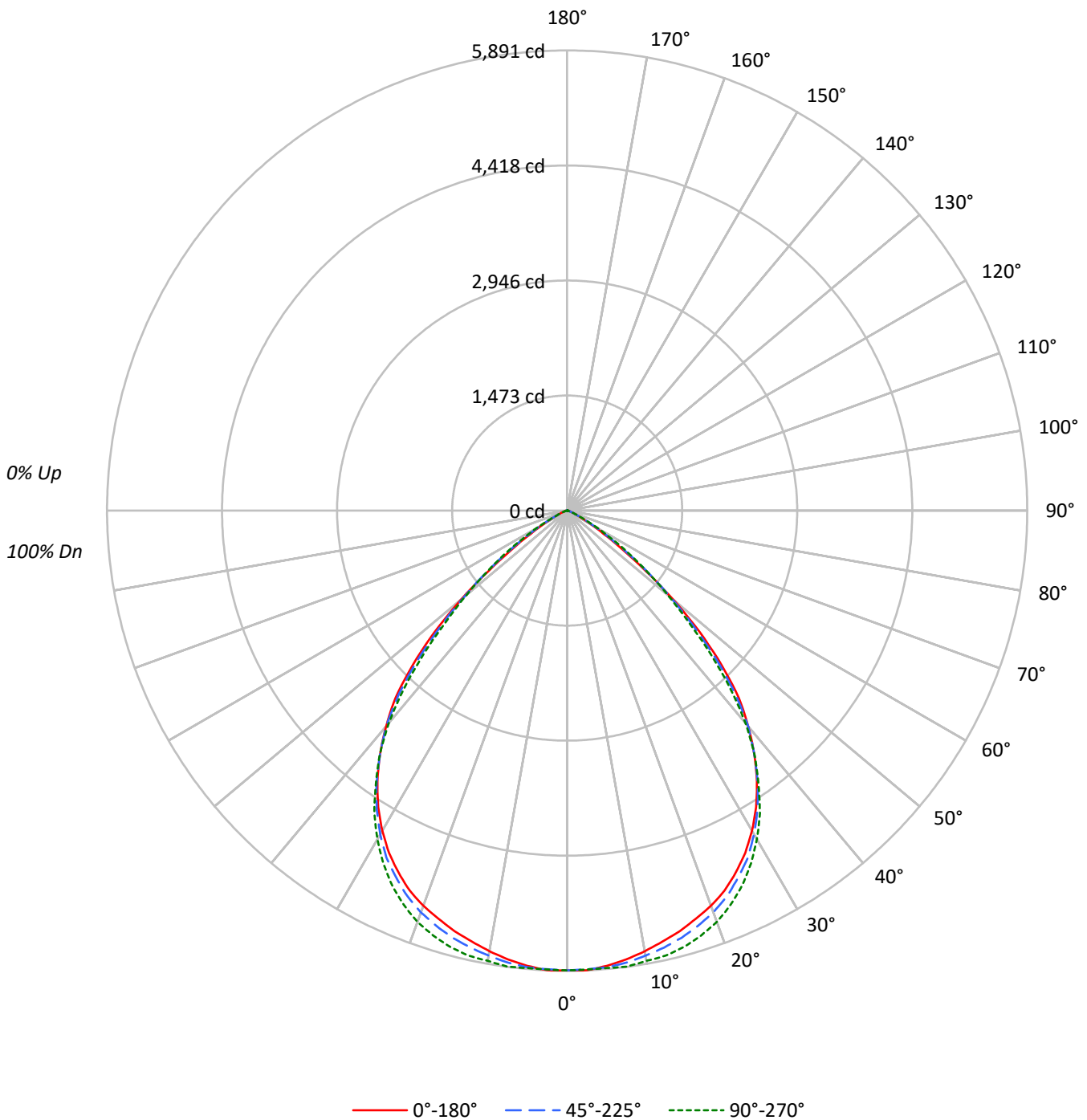
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	181521	181521	181521
5°	181063	181586	181970
10°	179346	181146	183263
15°	177926	180732	184614
20°	176684	179605	183930
25°	173918	176333	180239
30°	168530	170375	172985
35°	159389	160112	160703
40°	145184	145047	143099
45°	122066	118381	113275
50°	84782	82892	80676
55°	45359	50143	53111
60°	21949	24940	28135
65°	9617	9697	10106
70°	5175	4769	4670
75°	4563	4158	2955
80°	195	799	0
85°	389	389	1981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.6	5.4
10°-20°	1599.2	15.5
20°-30°	2386.1	23.1
30°-40°	2642.6	25.6
40°-50°	2060.9	20.0
50°-60°	863.8	8.4
60°-70°	173.0	1.7
70°-80°	27.5	0.3
80°-90°	4.3	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°	4542.9	44.0
0°-40°	7185.5	69.7
0°-60°	10110.2	98.0
0°-90°	10315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10315.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5887	5887	5887	5887	5887	
5°	5849	5854	5866	5882	5879	554
15°	5573	5598	5661	5745	5783	1572
25°	5112	5132	5183	5262	5297	2349
35°	4234	4227	4253	4274	4269	2632
45°	2799	2787	2715	2631	2598	2118
55°	844	876	933	970	988	822
65°	132	132	133	143	138	159
75°	38	35	35	27	25	31
85°	1	2	1	0	6	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5886.6	5886.6	5886.6	5886.6	5886.6
2.5°	5891.1	5879.8	5877.5	5884.3	5879.8
5°	5849.4	5853.9	5866.3	5882.0	5878.7
7.5°	5795.3	5803.2	5837.0	5877.5	5887.7
10°	5727.7	5744.6	5785.2	5831.4	5852.8
12.5°	5648.9	5671.4	5730.0	5796.4	5835.9
15°	5573.4	5598.2	5661.3	5744.6	5782.9
17.5°	5478.8	5511.5	5573.4	5663.5	5703.0
20°	5384.2	5413.5	5473.2	5561.0	5605.0
22.5°	5267.0	5288.4	5344.8	5419.1	5464.2
25°	5111.6	5131.9	5182.6	5262.5	5297.4
27.5°	4938.1	4961.8	5008.0	5063.2	5094.7
30°	4733.1	4752.3	4784.9	4834.5	4858.2
32.5°	4502.2	4503.3	4536.0	4573.2	4594.6
35°	4234.1	4227.4	4253.3	4273.6	4269.0
37.5°	3937.9	3939.0	3936.8	3939.0	3943.5
40°	3606.7	3591.0	3603.3	3575.2	3554.9
42.5°	3255.3	3239.5	3191.1	3129.1	3095.3
45°	2799.1	2786.7	2714.6	2631.3	2597.5
47.5°	2297.9	2259.6	2201.0	2130.0	2097.4
50°	1767.3	1762.8	1727.9	1711.0	1681.7
52.5°	1263.8	1263.8	1306.6	1299.9	1298.7
55°	843.7	876.3	932.7	969.8	987.9
57.5°	549.7	580.1	627.4	666.8	684.8
60°	355.9	370.6	404.4	434.8	456.2
62.5°	220.8	233.2	251.2	270.3	278.2
65°	131.8	131.8	132.9	143.1	138.5
67.5°	89.0	92.4	87.9	87.9	99.1
70°	57.4	54.1	52.9	51.8	51.8
72.5°	37.2	31.5	33.8	36.0	31.5
75°	38.3	34.9	34.9	27.0	24.8
77.5°	13.5	14.6	10.1	7.9	6.8
80°	1.1	4.5	4.5	1.1	0.0
82.5°	13.5	12.4	10.1	15.8	10.1
85°	1.1	2.3	1.1	0.0	5.6
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)