

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: P247439

Luminaire Tested: **LSR8B90D010 EC8B90835 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90835 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10511.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

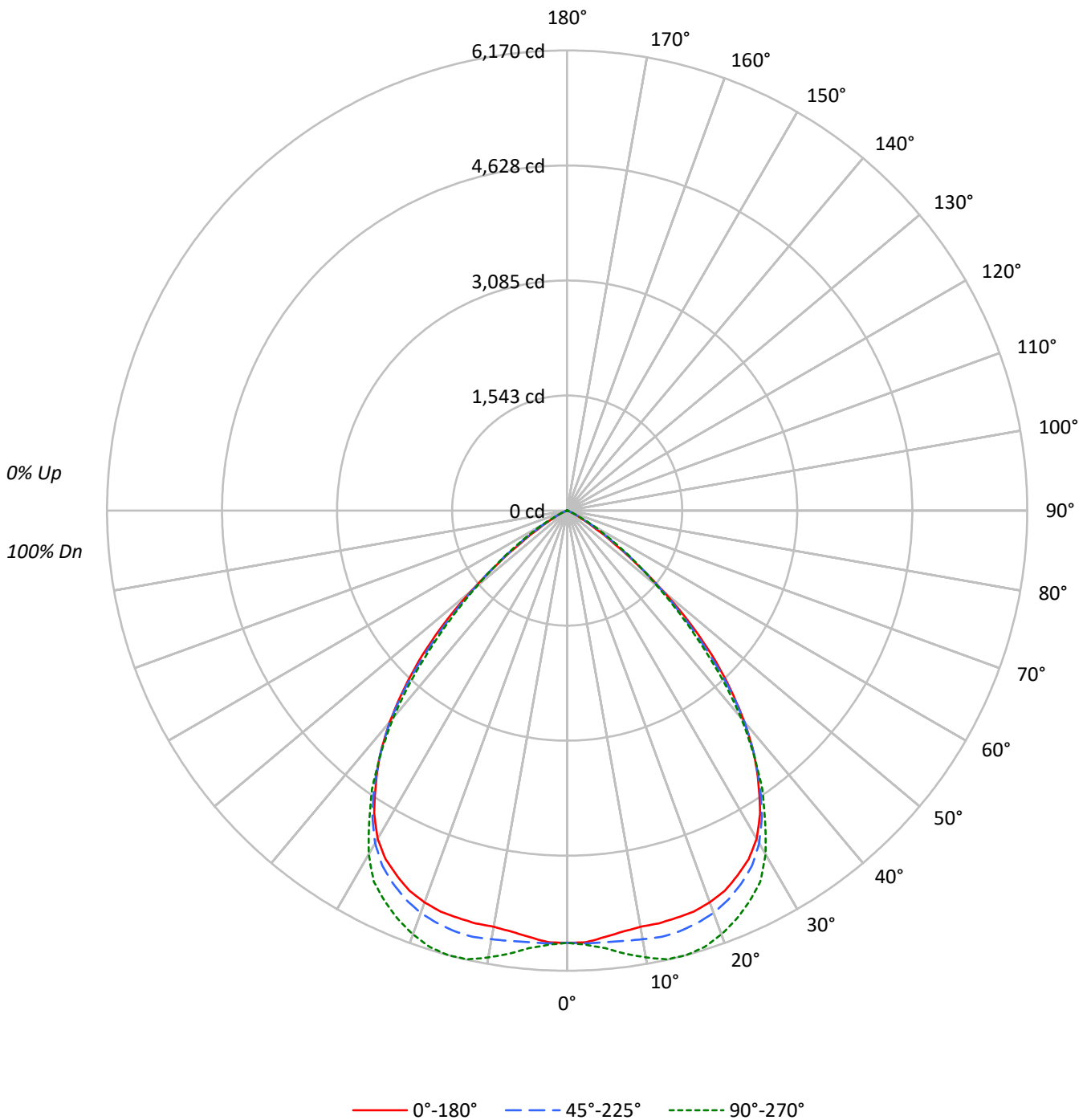
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	178700	178700	178700
5°	177708	179834	182344
10°	177401	182728	190487
15°	180508	186405	196978
20°	183441	188357	198411
25°	183761	187823	196714
30°	180957	183325	189421
35°	168416	169519	171639
40°	148851	148670	145997
45°	119899	115429	110959
50°	80513	78402	75759
55°	40875	44385	47111
60°	16744	20494	23898
65°	6246	6654	7807
70°	406	406	307
75°	810	1346	1739
80°	195	0	0
85°	814	0	814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.5	5.3
10°-20°	1658.4	15.8
20°-30°	2552.0	24.3
30°-40°	2795.1	26.6
40°-50°	2032.4	19.3
50°-60°	781.8	7.4
60°-70°	122.5	1.2
70°-80°	8.8	0.1
80°-90°	3.6	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°	4766.9	45.4
0°-40°	7562.0	71.9
0°-60°	10376.2	98.7
0°-90°	10511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10511.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5795	5795	5795	5795	5795	
5°	5741	5770	5810	5865	5891	546
15°	5654	5698	5839	6055	6170	1600
25°	5401	5434	5520	5684	5782	2484
35°	4474	4474	4503	4531	4560	2778
45°	2749	2721	2647	2579	2544	2090
55°	760	781	826	853	876	743
65°	86	89	91	104	107	105
75°	7	15	11	15	15	9
85°	2	0	0	0	2	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5795.1	5795.1	5795.1	5795.1	5795.1
2.5°	5794.0	5803.0	5808.6	5821.0	5826.6
5°	5741.0	5770.3	5809.7	5864.9	5890.8
7.5°	5694.9	5735.4	5819.9	5939.3	5992.2
10°	5665.6	5709.5	5835.7	5997.8	6083.5
12.5°	5669.0	5717.4	5853.7	6048.5	6163.4
15°	5654.3	5698.2	5839.0	6055.3	6170.2
17.5°	5637.4	5673.5	5798.5	6010.2	6134.1
20°	5590.1	5620.5	5739.9	5931.4	6046.3
22.5°	5519.1	5547.3	5646.4	5824.4	5930.3
25°	5400.9	5433.5	5520.3	5683.6	5781.6
27.5°	5269.1	5288.2	5368.2	5516.9	5610.4
30°	5082.1	5088.9	5148.6	5263.5	5319.8
32.5°	4815.2	4814.0	4859.1	4916.5	4937.9
35°	4473.9	4473.9	4503.2	4531.3	4559.5
37.5°	4119.1	4114.6	4118.0	4124.7	4101.1
40°	3697.8	3688.8	3693.3	3652.8	3626.9
42.5°	3236.0	3243.9	3198.9	3126.8	3099.7
45°	2749.4	2721.3	2646.9	2579.4	2544.4
47.5°	2232.4	2188.5	2117.6	2047.7	2042.1
50°	1678.3	1680.5	1634.3	1594.9	1579.2
52.5°	1164.7	1177.0	1200.7	1205.2	1210.8
55°	760.3	780.6	825.6	852.7	876.3
57.5°	465.2	502.4	540.7	591.3	595.8
60°	271.5	289.5	332.3	370.6	387.5
62.5°	153.2	170.1	179.1	201.6	207.2
65°	85.6	89.0	91.2	103.6	107.0
67.5°	51.8	54.1	56.3	55.2	57.4
70°	4.5	10.1	4.5	5.6	3.4
72.5°	19.1	12.4	13.5	10.1	6.8
75°	6.8	14.6	11.3	14.6	14.6
77.5°	4.5	3.4	5.6	6.8	5.6
80°	1.1	0.0	0.0	0.0	0.0
82.5°	10.1	9.0	5.6	9.0	3.4
85°	2.3	0.0	0.0	0.0	2.3
87.5°	6.8	3.4	3.4	7.9	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)