

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: P247607

Luminaire Tested: **LSR8B90D010 EC8B90940 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90940 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5548.0 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

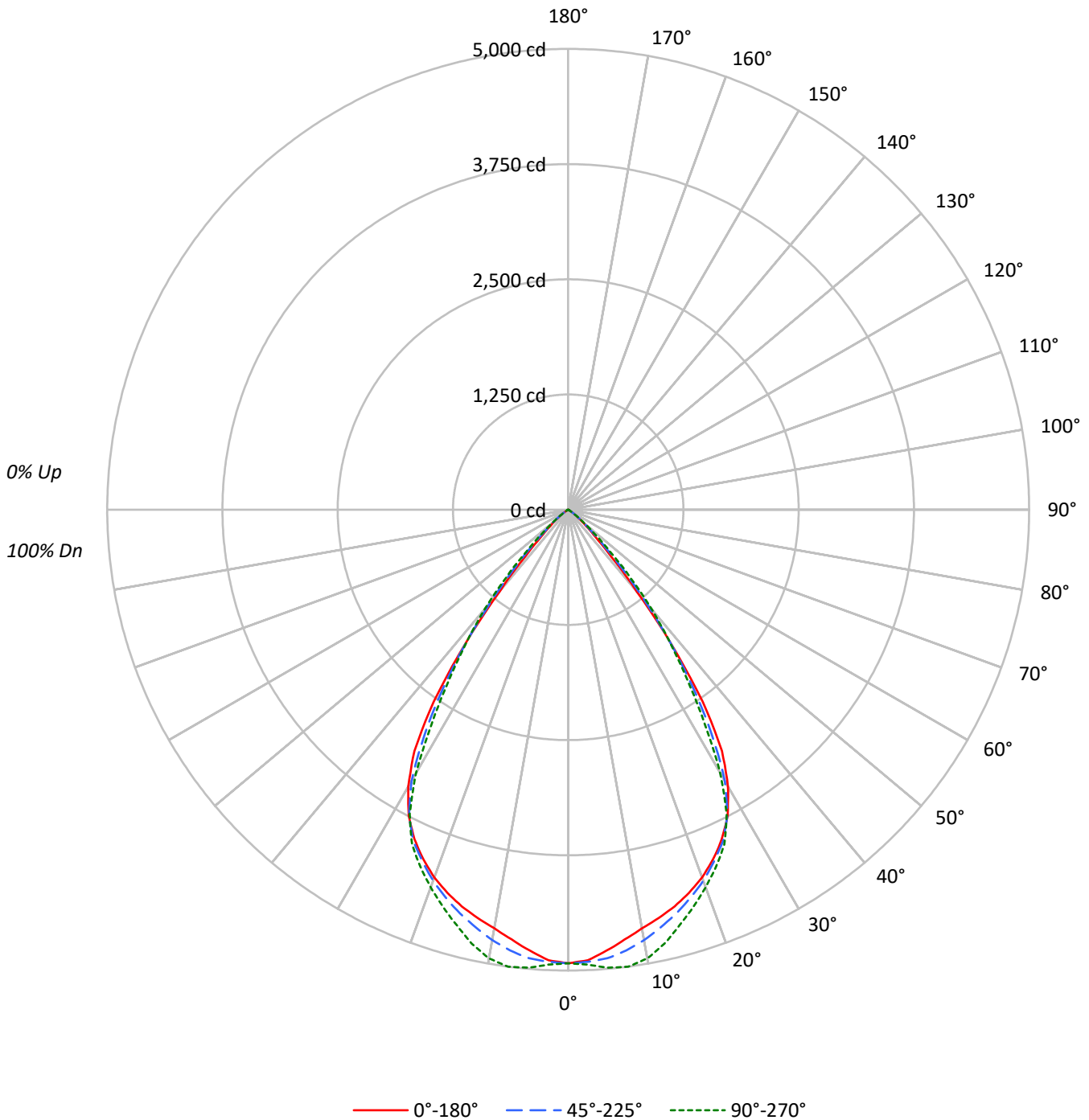
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95					93				
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88					86				
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81					79				
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75					73				
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69					68				
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64					63				
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60					58				
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55					54				
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52					50				
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48					47				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	151746	151746	151746
5°	148629	151239	154405
10°	144442	148463	154775
15°	142238	144766	149025
20°	139327	140610	143045
25°	134184	135140	136335
30°	123459	121063	117491
35°	95661	89130	84673
40°	46481	52745	56500
45°	17980	23143	28045
50°	8424	9628	11019
55°	3505	3774	3882
60°	1178	1116	1055
65°	146	219	219
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.6	8.3
10°-20°	1280.1	23.1
20°-30°	1803.7	32.5
30°-40°	1459.3	26.3
40°-50°	463.3	8.3
50°-60°	74.1	1.3
60°-70°	5.0	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	3546.4	63.9
0°-40°	5005.6	90.2
0°-60°	5543.0	99.9
0°-90°	5548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5548.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4921	4921	4921	4921	4921	
5°	4802	4824	4886	4957	4988	452
15°	4456	4472	4535	4621	4668	1255
25°	3944	3951	3972	3994	4007	1801
35°	2541	2472	2368	2282	2249	1507
45°	412	445	531	606	643	384
55°	65	66	70	73	72	68
65°	2	3	3	3	3	5
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4921.0	4921.0	4921.0	4921.0	4921.0
2.5°	4892.9	4897.9	4909.9	4933.0	4940.0
5°	4801.6	4823.7	4885.9	4957.1	4988.2
7.5°	4703.3	4732.4	4823.7	4944.0	5000.2
10°	4613.0	4644.1	4741.4	4869.8	4943.0
12.5°	4536.7	4560.8	4640.1	4755.4	4823.7
15°	4455.5	4472.5	4534.7	4621.0	4668.1
17.5°	4358.1	4373.2	4414.3	4481.5	4517.7
20°	4245.8	4249.8	4284.9	4328.0	4359.1
22.5°	4106.3	4110.3	4130.4	4171.5	4192.6
25°	3943.8	3950.8	3971.9	3994.0	4007.0
27.5°	3744.1	3747.2	3737.1	3719.1	3723.1
30°	3467.3	3456.2	3400.0	3322.8	3299.7
32.5°	3104.1	3030.8	2909.4	2801.1	2756.9
35°	2541.2	2472.0	2367.7	2282.4	2249.3
37.5°	1825.9	1830.9	1823.9	1804.9	1808.9
40°	1154.7	1200.9	1310.3	1381.5	1403.6
42.5°	693.2	743.4	863.8	960.1	991.2
45°	412.3	445.4	530.7	606.0	643.1
47.5°	264.9	280.9	323.0	367.2	388.3
50°	175.6	183.6	200.7	220.7	229.7
52.5°	112.4	115.4	123.4	130.4	137.4
55°	65.2	66.2	70.2	73.2	72.2
57.5°	34.1	34.1	34.1	34.1	34.1
60°	19.1	18.1	18.1	18.1	17.1
62.5°	9.0	9.0	9.0	8.0	8.0
65°	2.0	3.0	3.0	3.0	3.0
67.5°	0.0	0.0	0.0	0.0	1.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)