

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: P247699

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90935 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8314.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

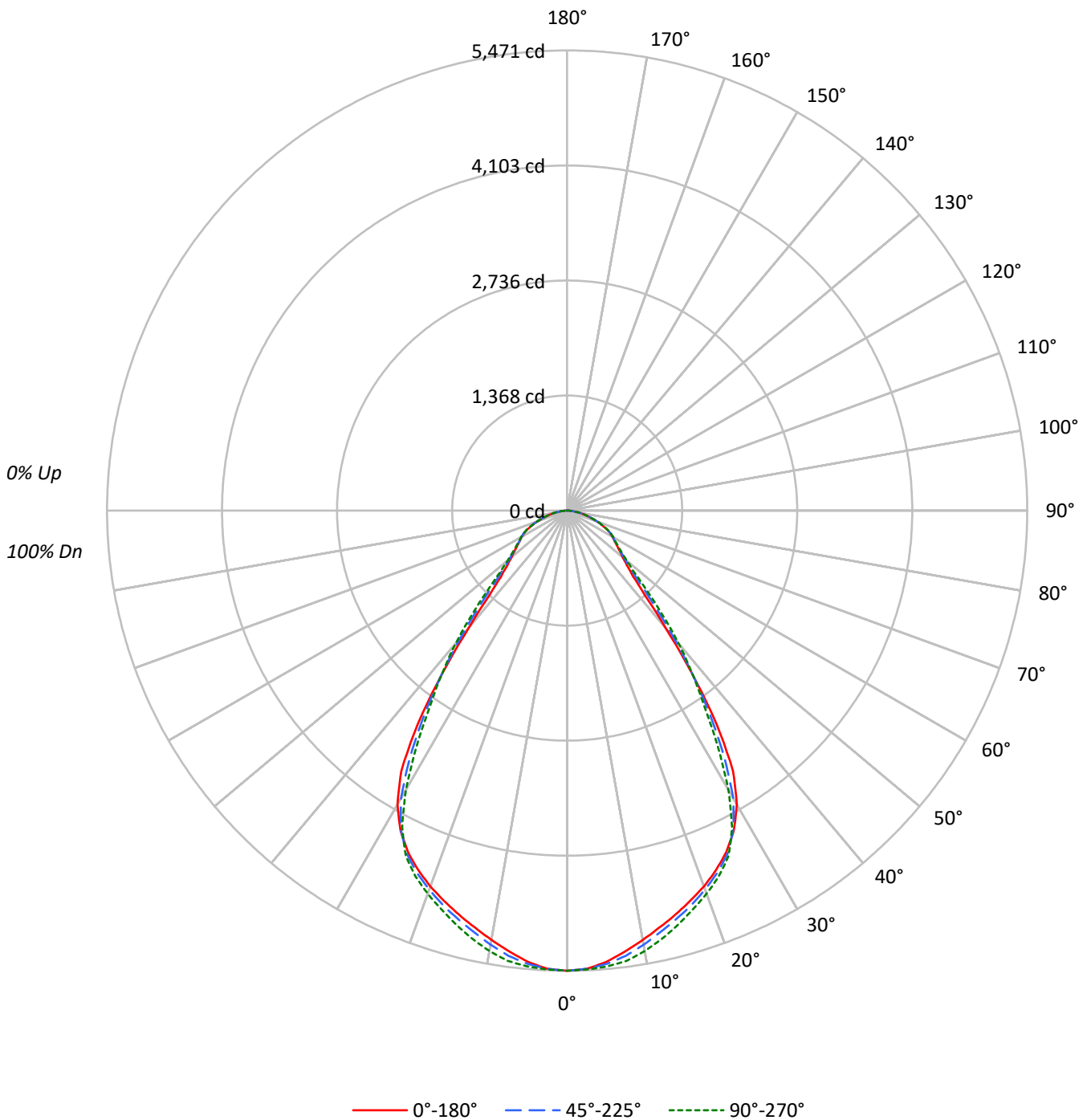
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78					78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	168712	168712	168712
5°	166651	167452	168406
10°	162290	164097	166502
15°	158749	160435	162733
20°	156024	157349	159082
25°	152360	153309	154320
30°	143645	140568	136431
35°	116610	111367	107101
40°	72924	79147	82975
45°	48589	53155	57682
50°	41425	42672	44145
55°	38730	39246	39816
60°	38385	38626	38977
65°	37424	37847	38124
70°	33945	34206	34468
75°	29643	29988	30095
80°	25252	25252	25927
85°	20379	20379	20379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.2	6.1
10°-20°	1418.4	17.1
20°-30°	2050.6	24.7
30°-40°	1835.2	22.1
40°-50°	993.1	11.9
50°-60°	661.9	8.0
60°-70°	506.9	6.1
70°-80°	268.7	3.2
80°-90°	68.0	0.8
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°	3980.3	47.9
0°-40°	5815.4	69.9
0°-60°	7470.5	89.9
0°-90°	8314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8314.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5471	5471	5471	5471	5471	
5°	5384	5387	5410	5431	5440	507
15°	4973	4982	5026	5074	5098	1403
25°	4478	4489	4506	4527	4536	2049
35°	3098	3066	2958	2873	2845	1875
45°	1114	1147	1219	1295	1323	917
55°	720	723	730	738	741	652
65°	513	515	519	522	522	503
75°	249	249	252	253	253	267
85°	58	58	58	59	58	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5471.2	5471.2	5471.2	5471.2	5471.2
2.5°	5452.9	5451.0	5452.0	5457.7	5460.6
5°	5383.8	5386.7	5409.7	5430.9	5440.5
7.5°	5286.8	5299.3	5338.6	5379.9	5401.1
10°	5183.0	5195.5	5240.7	5299.3	5317.5
12.5°	5076.4	5091.8	5132.1	5191.7	5213.8
15°	4972.7	4982.3	5025.5	5074.5	5097.5
17.5°	4866.1	4875.7	4915.0	4953.5	4971.7
20°	4754.6	4765.2	4795.0	4827.6	4847.8
22.5°	4626.9	4637.5	4662.4	4691.2	4709.5
25°	4478.0	4488.6	4505.9	4527.0	4535.6
27.5°	4289.7	4296.5	4280.1	4262.8	4247.5
30°	4034.2	4013.1	3947.8	3864.2	3831.6
32.5°	3671.2	3603.0	3477.1	3375.3	3337.9
35°	3097.7	3066.0	2958.4	2873.0	2845.1
37.5°	2429.2	2450.3	2442.6	2436.9	2442.6
40°	1811.6	1860.6	1966.2	2038.3	2061.3
42.5°	1371.6	1418.7	1537.8	1637.7	1672.3
45°	1114.2	1146.9	1218.9	1294.8	1322.7
47.5°	961.5	979.7	1016.2	1056.6	1070.0
50°	863.5	871.2	889.5	912.5	920.2
52.5°	785.7	789.6	800.1	812.6	814.5
55°	720.4	723.3	730.0	737.7	740.6
57.5°	665.6	668.5	670.5	675.3	677.2
60°	622.4	622.4	626.3	630.1	632.0
62.5°	575.4	575.4	579.2	583.0	583.0
65°	512.9	514.8	518.7	522.5	522.5
67.5°	444.7	445.7	448.6	452.4	451.5
70°	376.5	376.5	379.4	381.3	382.3
72.5°	311.2	310.3	315.1	316.0	313.1
75°	248.8	248.8	251.7	252.6	252.6
77.5°	194.0	193.1	193.1	194.0	195.0
80°	142.2	143.1	142.2	144.1	146.0
82.5°	98.9	98.0	98.0	98.0	97.0
85°	57.6	57.6	57.6	58.6	57.6
87.5°	23.1	23.1	22.1	22.1	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)