

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: P247107

Luminaire Tested: **LSR8B90D010 EC8B90840 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90840 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10520.0 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

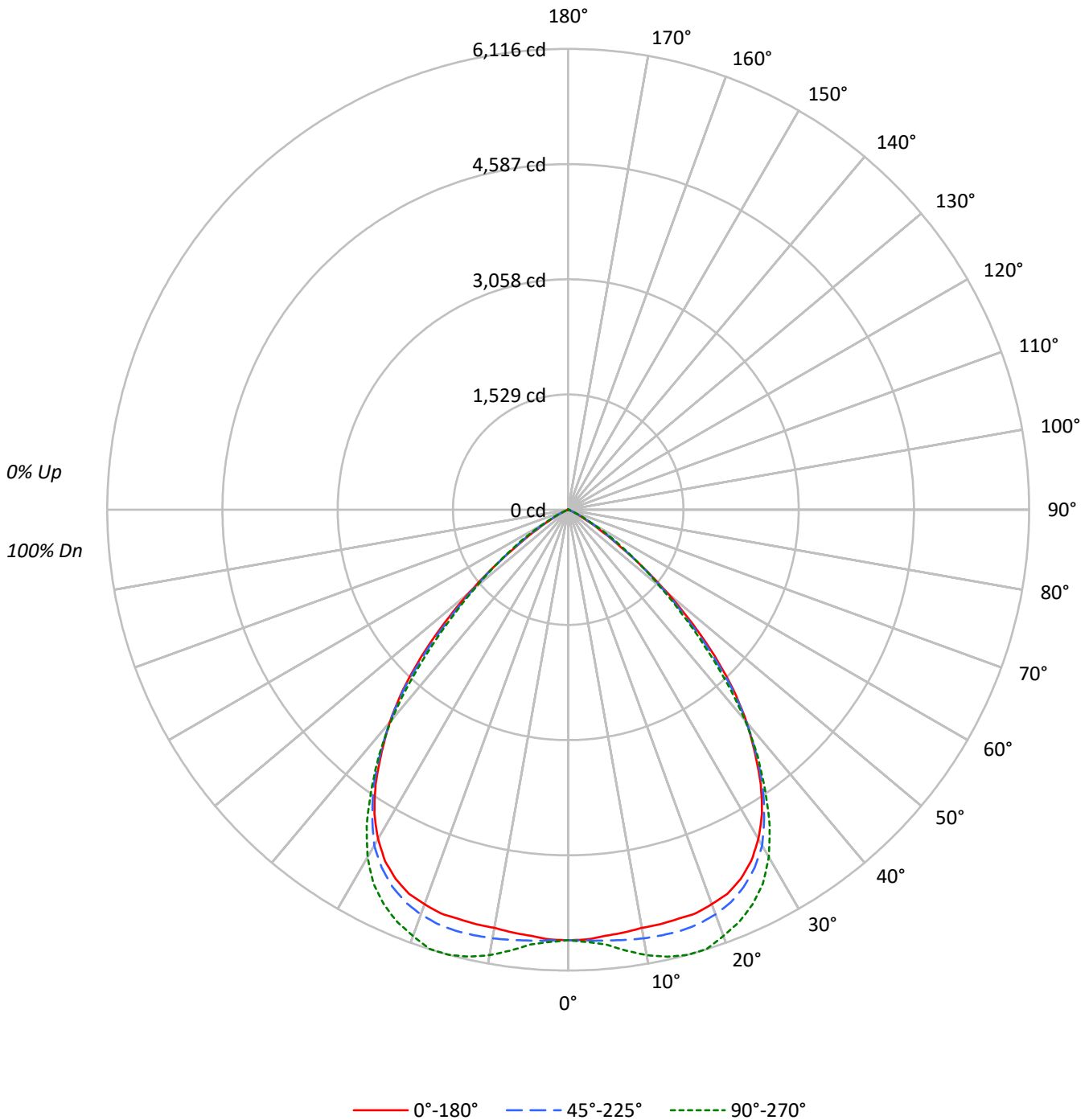
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	94	93	91				91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82				82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73				73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66				66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59				59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53				53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48				48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44				44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40				40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	176211	176211	176211
5°	175739	177680	179342
10°	176440	180890	187966
15°	179496	184675	195248
20°	182817	187556	197542
25°	184033	187762	196748
30°	179686	183271	189485
35°	167727	169452	171473
40°	148320	148187	147060
45°	119938	116524	111400
50°	82398	79227	76651
55°	42407	45117	48305
60°	17663	20907	23460
65°	6859	7267	8573
70°	1812	1713	2317
75°	798	1465	1334
80°	1190	1385	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.8	5.2
10°-20°	1646.3	15.6
20°-30°	2547.4	24.2
30°-40°	2790.2	26.5
40°-50°	2041.3	19.4
50°-60°	800.9	7.6
60°-70°	129.7	1.2
70°-80°	12.0	0.1
80°-90°	2.4	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°	4743.6	45.1
0°-40°	7533.8	71.6
0°-60°	10376.0	98.6
0°-90°	10520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10520.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5714	5714	5714	5714	5714	
5°	5677	5691	5740	5782	5794	541
15°	5623	5660	5785	6000	6116	1592
25°	5409	5426	5518	5685	5783	2480
35°	4456	4463	4501	4544	4555	2759
45°	2750	2746	2672	2590	2554	2094
55°	789	806	839	869	898	776
65°	94	92	100	110	118	114
75°	7	10	12	9	11	11
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5714.4	5714.4	5714.4	5714.4	5714.4
2.5°	5708.8	5712.1	5723.3	5734.5	5741.2
5°	5677.4	5690.9	5740.1	5781.5	5793.8
7.5°	5658.4	5680.8	5758.0	5862.0	5902.3
10°	5634.9	5667.4	5777.0	5924.7	6003.0
12.5°	5636.0	5667.4	5783.7	5976.2	6076.9
15°	5622.6	5659.5	5784.8	5999.7	6116.0
17.5°	5619.2	5637.1	5764.7	5982.9	6111.6
20°	5571.1	5595.7	5715.5	5909.0	6019.8
22.5°	5518.5	5529.7	5639.4	5829.6	5923.6
25°	5408.9	5425.7	5518.5	5685.3	5782.6
27.5°	5257.8	5261.2	5355.2	5509.6	5594.6
30°	5046.4	5063.1	5147.1	5261.2	5321.6
32.5°	4784.5	4782.3	4837.1	4936.7	4975.9
35°	4455.6	4463.4	4501.4	4544.0	4555.1
37.5°	4069.5	4079.6	4105.3	4119.9	4130.0
40°	3684.6	3684.6	3681.3	3665.6	3653.3
42.5°	3246.0	3231.5	3214.7	3145.3	3115.1
45°	2750.3	2745.8	2672.0	2590.3	2554.5
47.5°	2228.9	2204.3	2127.1	2061.1	2046.5
50°	1717.6	1691.8	1651.5	1619.1	1597.8
52.5°	1224.1	1205.1	1221.9	1221.9	1219.6
55°	788.8	805.6	839.2	869.4	898.5
57.5°	500.2	522.5	574.0	613.2	623.2
60°	286.4	303.2	339.0	373.7	380.4
62.5°	180.1	181.3	204.8	224.9	237.2
65°	94.0	91.8	99.6	109.7	117.5
67.5°	39.2	39.2	47.0	45.9	58.2
70°	20.1	16.8	19.0	22.4	25.7
72.5°	14.5	11.2	15.7	20.1	9.0
75°	6.7	10.1	12.3	9.0	11.2
77.5°	9.0	9.0	6.7	11.2	2.2
80°	6.7	4.5	7.8	3.4	0.0
82.5°	1.1	2.2	1.1	1.1	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	3.4	5.6	4.5	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)