

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: P247976

Luminaire Tested: **LSR8B150D010 EC8B1509727 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B1509727 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12274.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

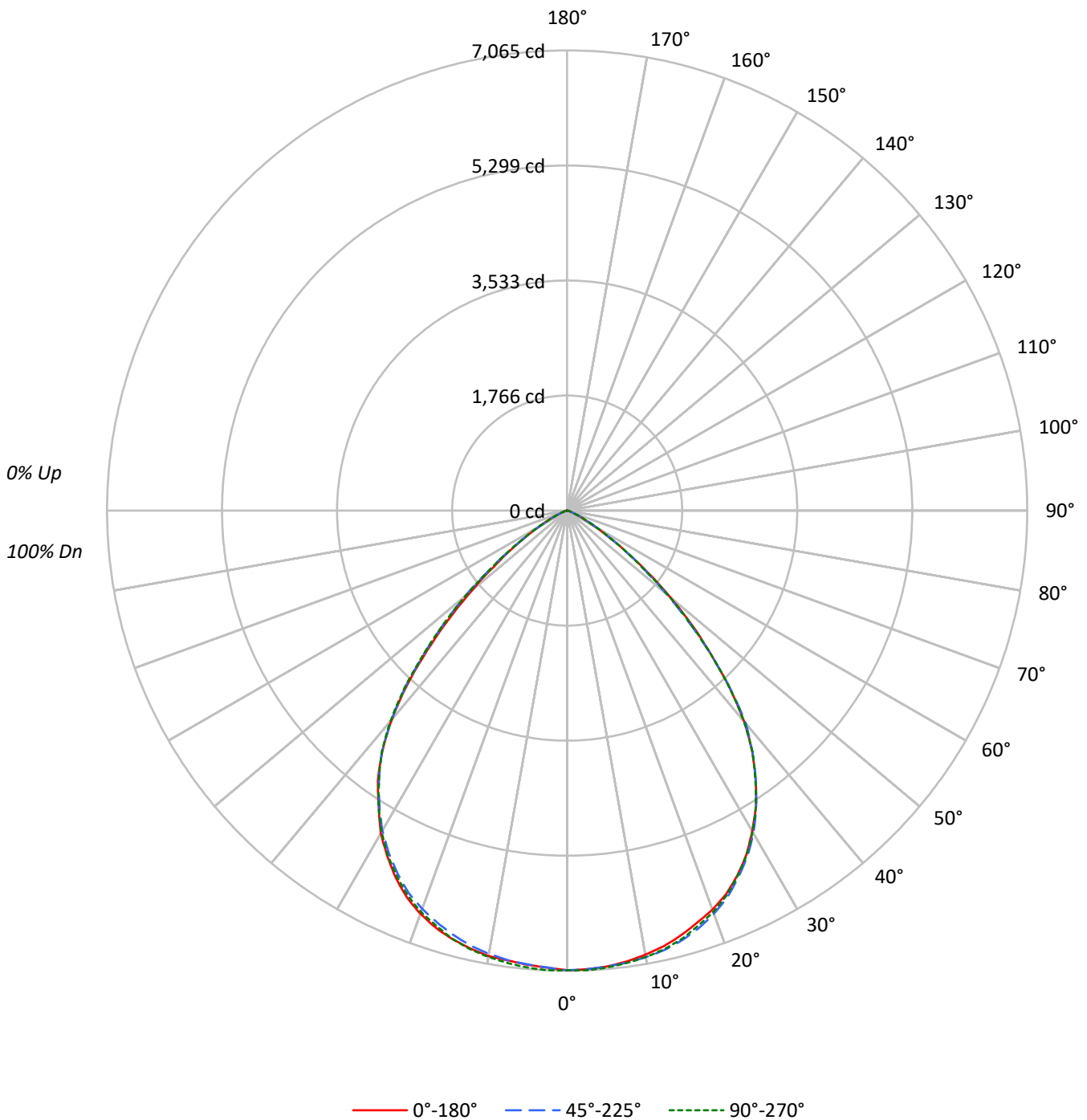
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	668.2	5.4
10°-20°	1916.7	15.6
20°-30°	2847.4	23.2
30°-40°	3138.0	25.6
40°-50°	2390.1	19.5
50°-60°	1030.3	8.4
60°-70°	236.7	1.9
70°-80°	39.3	0.3
80°-90°	7.4	0.1
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°	5432.3	44.3
0°-40°	8570.2	69.8
0°-60°	11990.6	97.7
0°-90°	12274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12274.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7058	7058	7058	7058	7058	
5°	7026	7025	7042	6995	7000	667
15°	6752	6827	6806	6746	6811	1905
25°	6182	6217	6189	6153	6224	2837
35°	5047	5050	5038	5034	5068	3134
45°	3120	3114	3119	3103	3041	2407
55°	1121	1120	1113	1120	1062	1045
65°	207	227	215	214	219	231
75°	42	42	42	43	37	39
85°	6	4	4	12	9	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	7057.6	7057.6	7057.6	7057.6	7057.6	7057.6	7057.6	7057.6	7057.6
2.5°	7049.9	7050.6	7045.8	7056.2	7064.6	7037.4	7021.4	7057.6	7022.8
5°	7025.6	7030.4	7024.9	7038.1	7042.3	7020.0	6994.9	7033.9	6999.8
7.5°	6983.8	6993.5	7001.9	7017.2	7006.1	6978.2	6961.5	7007.5	6965.7
10°	6921.1	6945.5	6963.6	6986.6	6959.4	6929.5	6909.3	6971.9	6944.1
12.5°	6850.8	6878.6	6909.3	6937.1	6896.0	6852.2	6841.7	6908.6	6883.5
15°	6751.9	6777.7	6827.1	6853.6	6806.2	6756.1	6745.7	6830.6	6811.1
17.5°	6635.6	6680.9	6722.7	6743.6	6683.7	6640.5	6634.9	6722.7	6715.0
20°	6520.7	6545.1	6588.3	6616.1	6559.0	6507.5	6505.4	6595.9	6588.3
22.5°	6375.2	6396.8	6425.4	6451.1	6397.5	6354.3	6357.1	6431.6	6430.2
25°	6182.4	6197.0	6217.2	6245.7	6189.3	6158.7	6153.1	6232.5	6224.1
27.5°	5957.5	5967.2	5990.2	6014.5	5965.8	5938.7	5928.9	6008.3	5980.4
30°	5683.8	5706.1	5722.1	5732.6	5696.3	5679.6	5672.7	5735.3	5722.1
32.5°	5393.5	5401.1	5401.8	5427.6	5389.3	5365.6	5365.6	5415.7	5385.8
35°	5047.4	5046.0	5050.2	5078.0	5038.3	5046.7	5034.2	5073.9	5067.6
37.5°	4667.9	4674.2	4675.6	4697.9	4675.6	4681.2	4676.3	4682.5	4662.4
40°	4232.0	4259.2	4268.3	4264.1	4220.9	4206.3	4193.8	4216.7	4191.0
42.5°	3691.0	3703.6	3705.0	3707.7	3695.9	3693.8	3678.5	3688.2	3647.9
45°	3120.1	3125.6	3113.8	3111.7	3119.4	3131.2	3102.7	3080.4	3040.7
47.5°	2598.6	2579.1	2525.4	2544.9	2553.3	2583.2	2552.6	2492.7	2460.0
50°	2049.9	2029.7	1988.6	1997.7	2030.4	2075.6	2040.1	1957.3	1913.4
52.5°	1566.0	1543.0	1497.0	1505.4	1515.1	1549.2	1530.4	1474.0	1431.6
55°	1121.0	1105.0	1120.3	1107.8	1112.7	1145.4	1119.6	1073.0	1061.8
57.5°	757.6	766.6	779.1	781.2	771.5	761.7	758.3	740.2	749.9
60°	502.0	509.0	529.9	536.1	521.5	500.6	504.8	504.8	513.9
62.5°	324.5	330.7	355.1	359.3	338.4	332.8	332.8	330.7	347.4
65°	206.8	219.3	227.0	215.8	215.2	207.5	213.8	213.8	218.6
67.5°	123.9	112.8	120.5	125.3	120.5	114.2	112.8	113.5	120.5
70°	71.7	68.9	73.8	71.0	73.8	64.1	71.7	68.2	70.3
72.5°	46.0	45.3	45.3	48.0	45.3	43.9	46.7	40.4	44.6
75°	42.5	42.5	42.5	36.9	42.5	41.1	43.2	32.7	36.9
77.5°	16.7	19.5	23.7	23.0	23.0	21.6	19.5	16.7	25.8
80°	15.3	13.9	18.8	22.3	13.9	16.7	18.8	11.8	12.5
82.5°	7.7	7.0	9.1	9.1	9.1	4.9	12.5	7.7	6.3
85°	6.3	2.8	4.2	4.2	4.2	5.6	12.5	3.5	9.1
87.5°	1.4	2.1	3.5	3.5	4.2	7.0	12.5	2.8	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)