

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: P247898

Luminaire Tested: **LSR8B150D010 EC8B150940 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150940 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16154.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

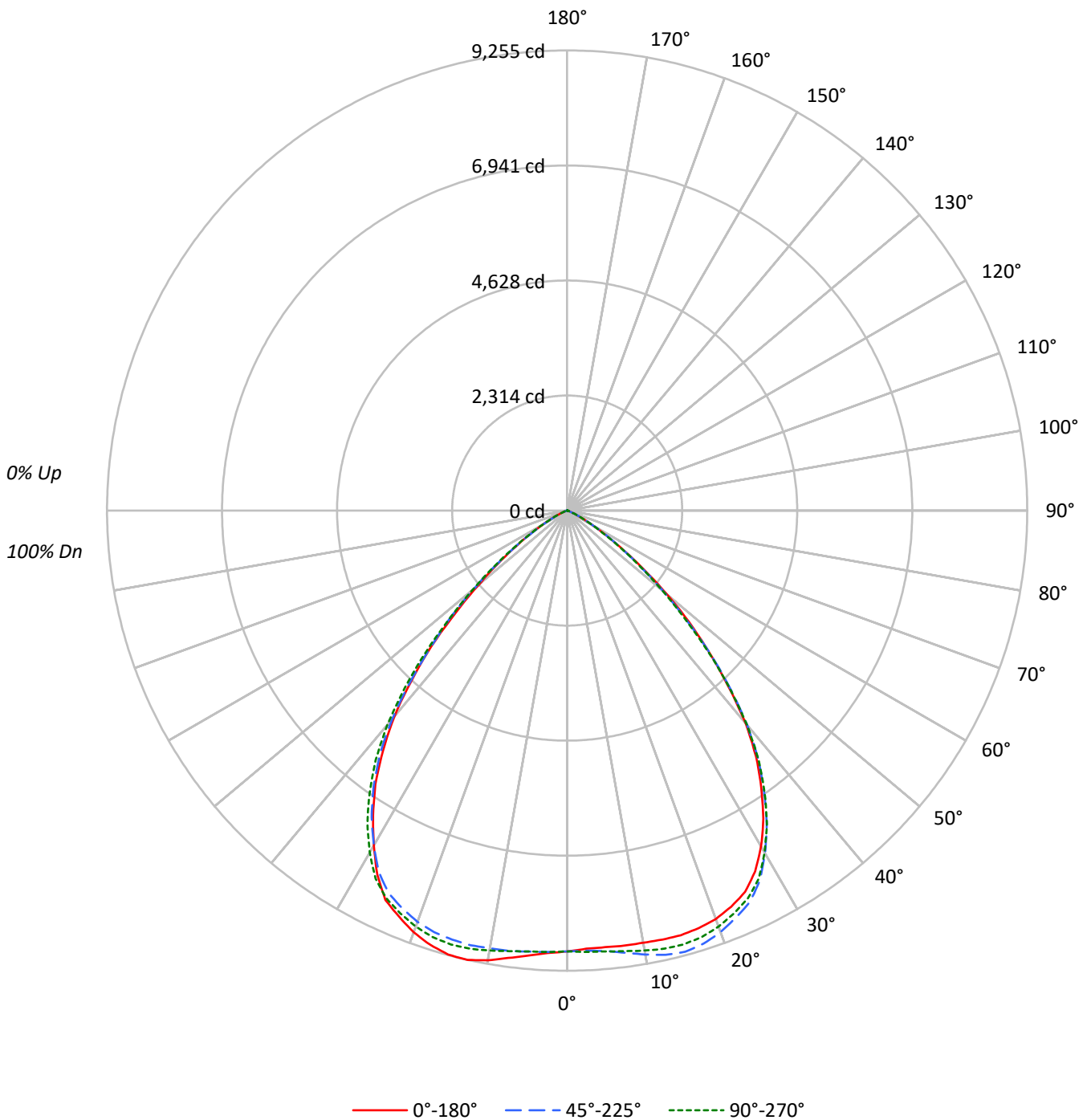
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	83	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	66	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	50	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	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	273392	273392	273392
5°	272864	275482	278048
10°	276297	281345	287591
15°	282267	288380	295090
20°	286875	292165	296198
25°	287987	292682	294108
30°	277786	282639	276803
35°	256195	260690	253010
40°	224621	226308	217701
45°	176382	174942	168261
50°	125324	119471	111306
55°	74556	71874	67325
60°	37411	35869	35597
65°	15724	15140	15534
70°	5860	5058	4896
75°	2335	2550	2550
80°	2681	1900	639
85°	2830	5342	2194



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	852.6	5.3
10°-20°	2552.8	15.8
20°-30°	3923.4	24.3
30°-40°	4244.4	26.3
40°-50°	3059.3	18.9
50°-60°	1241.8	7.7
60°-70°	248.0	1.5
70°-80°	24.8	0.2
80°-90°	6.7	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°	7328.9	45.4
0°-40°	11573.3	71.6
0°-60°	15874.5	98.3
0°-90°	16154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16154.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8866	8866	8866	8866	8866	
5°	8815	8890	8900	8903	8983	842
15°	8842	9185	9033	8933	9244	2498
25°	8464	8690	8602	8492	8644	3869
35°	6806	6906	6925	6784	6721	4226
45°	4045	4064	4012	3877	3858	3120
55°	1387	1344	1337	1292	1252	1301
65°	216	233	208	198	213	257
75°	20	24	21	20	21	26
85°	8	12	15	7	6	7
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°	8865.9	8865.9	8865.9	8865.9	8865.9	8865.9	8865.9	8865.9	8865.9
2.5°	8820.4	8876.6	8857.9	8833.8	8884.6	8874.8	8885.5	8889.9	8906.8
5°	8815.1	8878.3	8889.9	8864.1	8899.7	8882.8	8903.3	8941.6	8982.6
7.5°	8824.0	8919.3	8969.2	8954.0	8937.1	8879.2	8932.7	9020.9	9075.2
10°	8824.0	8950.5	9066.3	9065.4	8985.2	8877.5	8937.1	9089.4	9184.7
12.5°	8838.3	8993.2	9151.8	9162.5	9026.2	8889.9	8954.0	9134.0	9255.1
15°	8841.8	8994.1	9184.7	9190.1	9033.3	8873.0	8932.7	9126.0	9243.5
17.5°	8804.4	8951.4	9132.2	9150.9	8993.2	8830.2	8890.8	9063.6	9157.1
20°	8742.1	8873.9	9020.9	9052.0	8903.3	8748.3	8801.7	8950.5	9026.2
22.5°	8622.7	8743.0	8864.1	8887.2	8767.9	8632.5	8659.2	8775.0	8838.3
25°	8464.2	8583.5	8689.5	8702.0	8602.2	8481.1	8491.8	8580.0	8644.1
27.5°	8182.7	8295.8	8392.0	8407.2	8347.5	8218.3	8198.7	8240.6	8267.3
30°	7801.5	7879.0	7959.2	8007.3	7937.8	7830.9	7775.7	7797.9	7773.9
32.5°	7343.7	7423.0	7472.0	7487.1	7476.4	7382.9	7317.9	7261.7	7265.3
35°	6805.7	6877.9	6905.5	6933.1	6925.1	6852.0	6783.5	6730.9	6721.1
37.5°	6241.9	6290.0	6321.2	6342.6	6324.7	6278.4	6189.4	6098.5	6083.4
40°	5580.1	5653.2	5628.2	5638.9	5622.0	5563.2	5474.1	5422.5	5408.2
42.5°	4803.5	4867.6	4862.2	4865.8	4828.4	4748.2	4670.7	4642.2	4627.1
45°	4044.6	4075.8	4064.2	4026.8	4011.6	3961.8	3877.1	3822.8	3858.4
47.5°	3330.3	3319.6	3242.1	3211.8	3189.5	3196.7	3178.0	3082.7	3031.0
50°	2612.4	2584.8	2510.8	2465.4	2490.4	2509.9	2440.5	2383.5	2320.2
52.5°	1937.2	1942.6	1872.2	1822.3	1845.5	1849.1	1808.1	1776.0	1757.3
55°	1386.8	1386.8	1344.0	1328.0	1336.9	1320.0	1291.5	1280.8	1252.3
57.5°	943.2	949.5	946.8	928.1	886.2	871.1	855.1	871.1	880.9
60°	606.6	621.7	619.0	617.2	581.6	546.0	561.1	575.4	577.2
62.5°	373.2	380.3	392.8	382.1	364.3	335.8	332.2	353.6	373.2
65°	215.5	223.6	233.4	226.2	207.5	203.1	197.7	209.3	212.9
67.5°	122.9	119.4	120.2	114.9	109.6	103.3	104.2	109.6	117.6
70°	65.0	56.1	57.0	51.7	56.1	49.9	48.1	52.6	54.3
72.5°	33.0	32.1	36.5	36.5	39.2	34.7	34.7	33.0	37.4
75°	19.6	22.3	24.0	26.7	21.4	20.5	20.5	20.5	21.4
77.5°	5.3	2.7	3.6	11.6	4.5	8.9	4.5	3.6	8.0
80°	15.1	8.9	5.3	9.8	10.7	5.3	13.4	12.5	3.6
82.5°	5.3	0.0	9.8	10.7	8.9	8.9	10.7	10.7	9.8
85°	8.0	5.3	11.6	13.4	15.1	8.9	7.1	4.5	6.2
87.5°	3.6	0.0	5.3	4.5	2.7	0.9	2.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)