

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: P248075

Luminaire Tested: **LSR8B150D010 EC8B150935 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150935 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14766.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

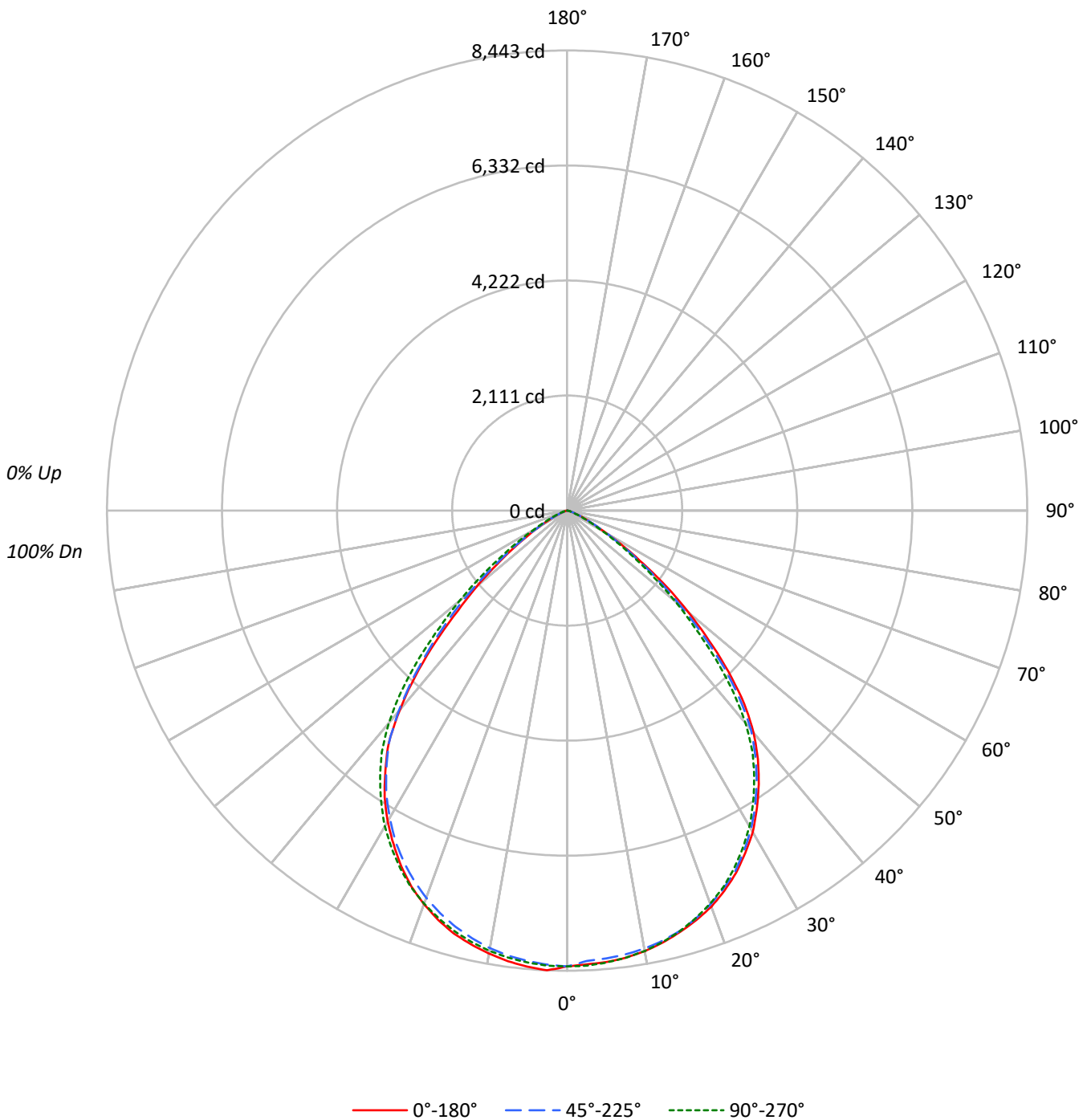
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	257893	257893	257893
5°	257374	257637	259934
10°	257012	256852	258427
15°	255530	255067	256456
20°	253820	251805	252196
25°	249533	246542	245062
30°	242524	238244	234477
35°	230785	225233	218972
40°	214308	205110	192442
45°	182674	168131	149278
50°	139097	123919	103381
55°	91696	79911	64369
60°	51490	45280	35554
65°	27004	24144	17176
70°	12920	11378	7150
75°	7315	7923	4980
80°	5612	5452	2877
85°	3326	2724	1203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.8	5.3
10°-20°	2249.6	15.2
20°-30°	3323.4	22.5
30°-40°	3703.5	25.1
40°-50°	2924.8	19.8
50°-60°	1350.7	9.1
60°-70°	347.0	2.3
70°-80°	66.8	0.5
80°-90°	10.5	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°	6362.7	43.1
0°-40°	10066.3	68.2
0°-60°	14341.7	97.1
0°-90°	14766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14766.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8363	8363	8363	8363	8363	
5°	8315	8248	8323	8298	8397	790
15°	8004	7986	7990	7906	8033	2259
25°	7334	7300	7246	7101	7203	3370
35°	6131	6062	5983	5784	5817	3818
45°	4189	4067	3855	3548	3423	3197
55°	1706	1608	1486	1272	1197	1581
65°	370	375	331	253	235	406
75°	61	65	66	50	42	74
85°	9	9	8	4	3	13
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°	8363.3	8363.3	8363.3	8363.3	8363.3	8363.3	8363.3	8363.3	8363.3
2.5°	8331.7	8371.0	8271.2	8352.2	8355.6	8298.5	8337.7	8384.6	8442.6
5°	8314.7	8354.8	8248.2	8323.2	8323.2	8260.9	8297.6	8338.5	8397.4
7.5°	8274.6	8318.1	8213.2	8283.1	8272.0	8203.8	8236.2	8276.3	8339.4
10°	8208.1	8261.8	8159.5	8226.0	8203.0	8124.5	8152.6	8194.4	8253.3
12.5°	8116.8	8180.8	8085.3	8143.3	8106.6	8017.0	8040.1	8093.8	8151.8
15°	8004.3	8069.9	7985.5	8035.8	7989.8	7890.0	7906.2	7960.8	8033.3
17.5°	7878.9	7942.9	7848.2	7902.8	7841.4	7738.2	7744.2	7807.3	7872.9
20°	7734.8	7787.6	7690.4	7742.5	7673.4	7560.0	7560.8	7617.1	7685.3
22.5°	7545.5	7600.9	7500.3	7543.8	7480.6	7359.5	7345.1	7399.6	7465.3
25°	7334.0	7392.0	7299.9	7315.2	7246.1	7120.8	7101.2	7141.2	7202.6
27.5°	7080.7	7137.8	7033.8	7053.4	6977.5	6857.3	6830.8	6852.1	6900.8
30°	6811.2	6847.0	6748.1	6764.3	6691.0	6548.5	6508.5	6537.5	6585.2
32.5°	6479.5	6505.1	6420.6	6429.2	6349.9	6227.0	6174.2	6182.7	6231.3
35°	6130.7	6144.3	6062.5	6064.2	5983.2	5858.6	5783.6	5779.3	5816.9
37.5°	5746.1	5755.5	5672.7	5668.5	5584.9	5450.2	5371.7	5358.1	5381.1
40°	5323.9	5336.7	5250.6	5223.3	5095.4	4941.9	4814.0	4790.1	4780.7
42.5°	4812.3	4777.3	4686.9	4640.9	4512.1	4315.1	4196.6	4160.7	4130.0
45°	4188.9	4160.7	4066.9	3962.9	3855.4	3707.1	3547.6	3449.5	3423.1
47.5°	3534.8	3501.5	3366.8	3275.6	3169.8	3101.6	2930.2	2779.2	2713.6
50°	2899.5	2862.8	2712.7	2645.3	2583.1	2481.6	2315.3	2179.7	2155.0
52.5°	2311.9	2256.5	2127.7	2057.8	2002.3	1889.8	1739.7	1661.2	1619.4
55°	1705.6	1697.0	1607.5	1557.2	1486.4	1396.9	1272.4	1213.5	1197.3
57.5°	1242.5	1211.0	1176.8	1134.2	1072.8	960.2	883.5	839.1	835.7
60°	834.9	845.1	845.1	798.2	734.2	660.9	599.5	575.6	576.5
62.5°	560.3	567.1	565.4	544.9	495.5	435.8	395.7	378.6	379.5
65°	370.1	368.4	375.2	360.7	330.9	289.1	253.3	243.9	235.4
67.5°	235.4	237.9	235.4	227.7	209.8	179.9	156.1	141.6	137.3
70°	143.3	139.9	140.7	139.0	126.2	111.7	94.7	82.7	79.3
72.5°	86.1	88.7	89.5	92.1	90.4	80.2	68.2	59.7	58.0
75°	61.4	62.3	64.8	67.4	66.5	59.7	50.3	44.3	41.8
77.5°	46.1	46.1	47.8	51.2	48.6	42.6	35.8	30.7	29.0
80°	31.6	32.4	33.3	33.3	30.7	27.3	21.3	17.9	16.2
82.5°	18.8	19.6	18.8	18.8	17.1	13.6	10.2	9.4	8.5
85°	9.4	9.4	9.4	9.4	7.7	6.0	4.3	3.4	3.4
87.5°	4.3	4.3	4.3	3.4	2.6	1.7	1.7	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)