

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: P248078

Luminaire Tested: **LSR8B150D010 EC8B150940 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248078
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 EC8B150940 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15422.0 lumens
Efficiency: N/A
Efficacy: 97.3 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

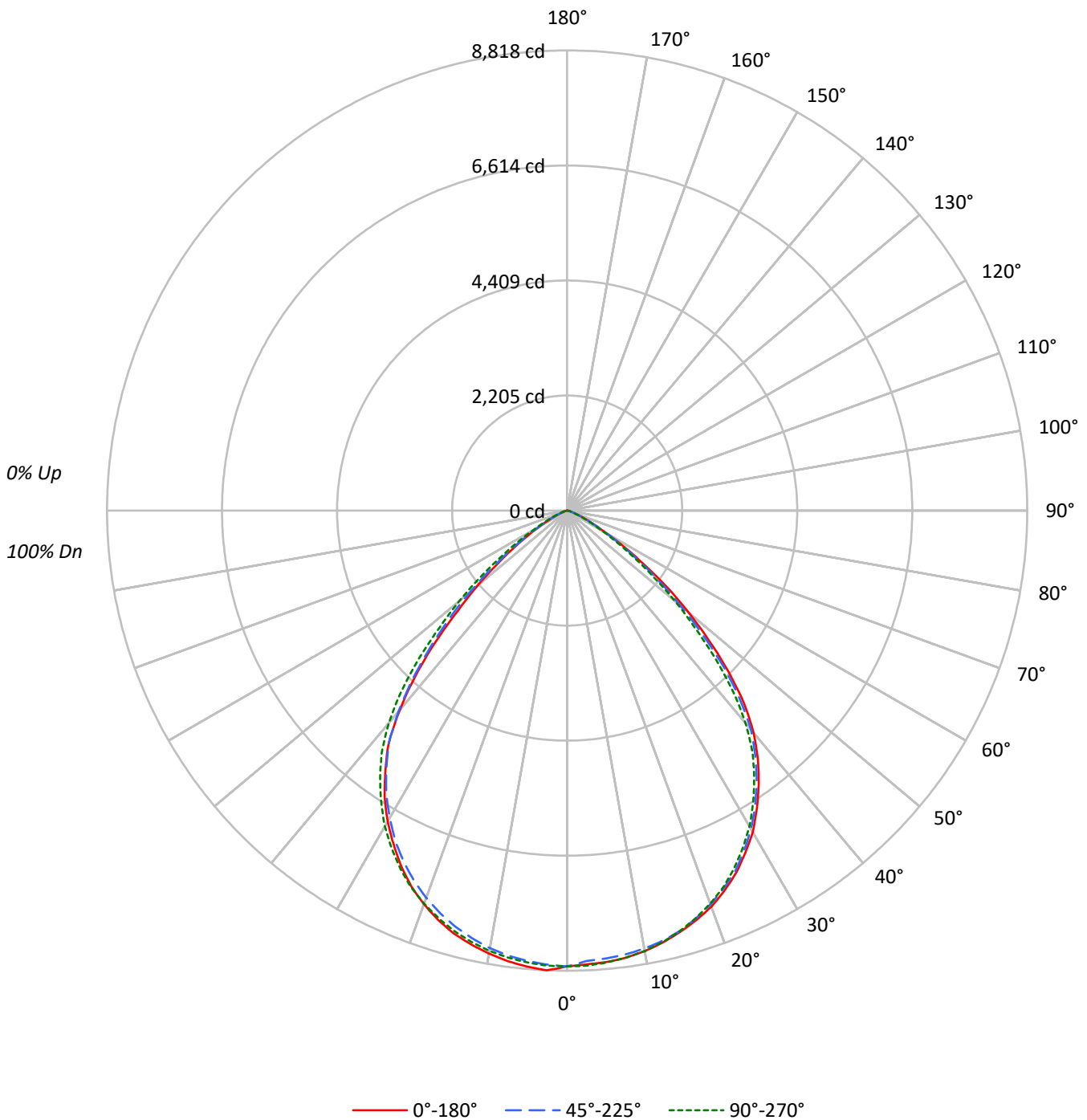
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	269349	269349	269349
5°	268809	269084	271483
10°	268429	268263	269906
15°	266882	266397	267846
20°	265095	262992	263399
25°	260618	257494	255950
30°	253299	248827	244896
35°	241036	235239	228700
40°	223832	214223	200992
45°	190790	175601	155911
50°	145276	129421	107972
55°	95765	83459	67229
60°	53779	47297	37133
65°	28208	25217	17935
70°	13488	11883	7465
75°	7637	8280	5195
80°	5860	5700	3001
85°	3467	2830	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	824.9	5.3
10°-20°	2349.5	15.2
20°-30°	3471.0	22.5
30°-40°	3868.1	25.1
40°-50°	3054.7	19.8
50°-60°	1410.7	9.1
60°-70°	362.4	2.3
70°-80°	69.8	0.5
80°-90°	11.0	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°	6645.4	43.1
0°-40°	10513.5	68.2
0°-60°	14978.9	97.1
0°-90°	15422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15422.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8735	8735	8735	8735	8735	
5°	8684	8615	8693	8666	8770	825
15°	8360	8340	8345	8257	8390	2359
25°	7660	7624	7568	7417	7523	3520
35°	6403	6332	6249	6040	6075	3987
45°	4375	4248	4027	3705	3575	3339
55°	1781	1679	1552	1329	1250	1651
65°	387	392	346	264	246	424
75°	64	68	70	52	44	77
85°	10	10	8	4	4	14
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°	8734.8	8734.8	8734.8	8734.8	8734.8	8734.8	8734.8	8734.8	8734.8
2.5°	8701.9	8742.8	8638.6	8723.3	8726.8	8667.1	8708.1	8757.1	8817.7
5°	8684.1	8725.9	8614.6	8693.0	8693.0	8627.9	8666.2	8709.0	8770.5
7.5°	8642.2	8687.6	8578.1	8651.1	8639.5	8568.3	8602.1	8644.0	8709.9
10°	8572.7	8628.8	8522.0	8591.4	8567.4	8485.4	8514.8	8558.5	8619.9
12.5°	8477.4	8544.2	8444.5	8505.0	8466.7	8373.2	8397.3	8453.4	8513.9
15°	8359.9	8428.4	8340.3	8392.8	8344.7	8240.5	8257.4	8314.4	8390.1
17.5°	8228.9	8295.7	8196.9	8253.9	8189.7	8082.0	8088.2	8154.1	8222.7
20°	8078.4	8133.6	8032.1	8086.4	8014.3	7895.8	7896.7	7955.5	8026.7
22.5°	7880.7	7938.6	7833.5	7878.9	7813.0	7686.5	7671.4	7728.4	7797.0
25°	7659.8	7720.4	7624.2	7640.2	7568.0	7437.1	7416.6	7458.5	7522.6
27.5°	7395.3	7454.9	7346.3	7366.8	7287.5	7161.9	7134.3	7156.6	7207.3
30°	7113.8	7151.2	7047.9	7064.8	6988.2	6839.5	6797.6	6827.9	6877.8
32.5°	6767.3	6794.1	6705.9	6714.8	6632.0	6503.7	6448.5	6457.4	6508.1
35°	6403.0	6417.3	6331.8	6333.6	6249.0	6118.9	6040.5	6036.1	6075.3
37.5°	6001.4	6011.2	5924.8	5920.3	5833.0	5692.3	5610.3	5596.1	5620.1
40°	5560.5	5573.8	5483.9	5455.4	5321.8	5161.4	5027.8	5002.9	4993.1
42.5°	5026.1	4989.6	4895.1	4847.0	4712.6	4506.8	4383.0	4345.6	4313.5
45°	4375.0	4345.6	4247.6	4139.0	4026.7	3871.8	3705.2	3602.8	3575.2
47.5°	3691.8	3657.1	3516.4	3421.1	3310.6	3239.4	3060.4	2902.7	2834.1
50°	3028.3	2990.0	2833.2	2762.9	2697.8	2591.9	2418.2	2276.6	2250.7
52.5°	2414.6	2356.7	2222.2	2149.2	2091.3	1973.7	1817.0	1735.0	1691.4
55°	1781.3	1772.4	1678.9	1626.4	1552.4	1458.9	1328.9	1267.4	1250.5
57.5°	1297.7	1264.8	1229.1	1184.6	1120.5	1002.9	922.7	876.4	872.9
60°	872.0	882.7	882.7	833.7	766.9	690.3	626.1	601.2	602.1
62.5°	585.2	592.3	590.5	569.1	517.5	455.1	413.3	395.5	396.3
65°	386.6	384.8	391.9	376.8	345.6	301.9	264.5	254.7	245.8
67.5°	245.8	248.5	245.8	237.8	219.1	187.9	163.0	147.9	143.4
70°	149.6	146.1	147.0	145.2	131.8	116.7	98.9	86.4	82.8
72.5°	90.0	92.6	93.5	96.2	94.4	83.7	71.3	62.3	60.6
75°	64.1	65.0	67.7	70.4	69.5	62.3	52.5	46.3	43.6
77.5°	48.1	48.1	49.9	53.4	50.8	44.5	37.4	32.1	30.3
80°	33.0	33.8	34.7	34.7	32.1	28.5	22.3	18.7	16.9
82.5°	19.6	20.5	19.6	19.6	17.8	14.3	10.7	9.8	8.9
85°	9.8	9.8	9.8	9.8	8.0	6.2	4.5	3.6	3.6
87.5°	4.5	4.5	4.5	3.6	2.7	1.8	1.8	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)