

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: P247973

Luminaire Tested: **LSR8B150D010 EC8B150950 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247973
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 EC8B150950 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16256.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

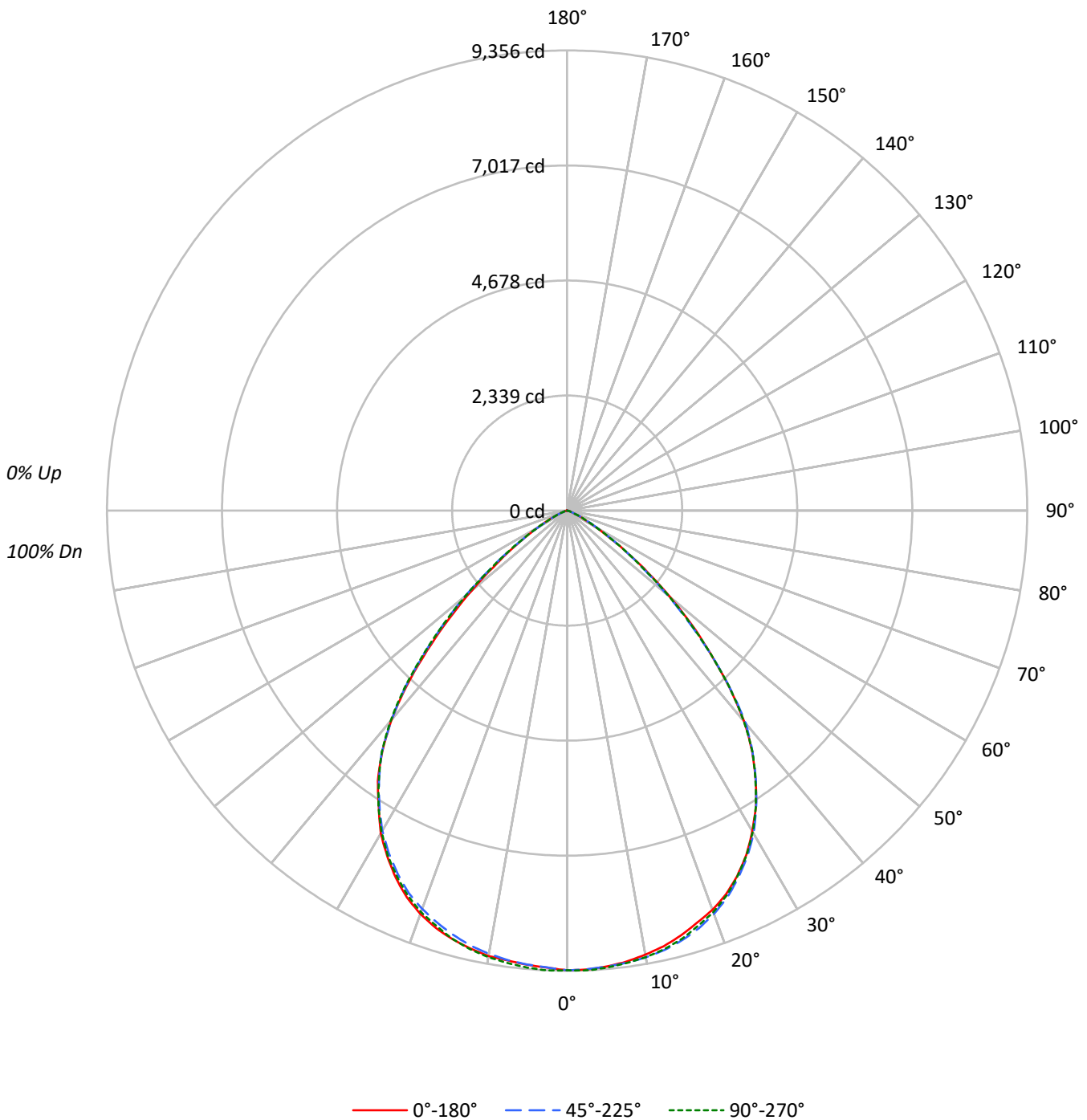
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	288236	288236	288236
5°	288022	288709	286966
10°	287022	288609	287973
15°	285478	287773	287981
20°	283400	285067	286337
25°	278593	278906	280474
30°	268040	268631	269845
35°	251648	251196	252657
40°	225623	225032	223434
45°	180206	180167	175623
50°	130241	129004	121573
55°	79820	79223	75605
60°	41006	42597	41974
65°	19985	20795	21131
70°	8565	8818	8394
75°	6708	6708	5826
80°	3605	3267	2948
85°	2937	1946	4246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	885.0	5.4
10°-20°	2538.5	15.6
20°-30°	3771.2	23.2
30°-40°	4156.0	25.6
40°-50°	3165.5	19.5
50°-60°	1364.6	8.4
60°-70°	313.5	1.9
70°-80°	52.1	0.3
80°-90°	9.8	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°	7194.6	44.3
0°-40°	11350.6	69.8
0°-60°	15880.7	97.7
0°-90°	16256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16256.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9347	9347	9347	9347	9347	
5°	9305	9304	9327	9264	9271	884
15°	8942	9042	9014	8934	9021	2522
25°	8188	8234	8197	8149	8243	3758
35°	6685	6689	6673	6667	6712	4150
45°	4132	4124	4131	4109	4027	3188
55°	1485	1484	1474	1483	1406	1384
65°	274	301	285	283	290	306
75°	56	56	56	57	49	52
85°	8	6	6	17	12	8
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°	9347.3	9347.3	9347.3	9347.3	9347.3	9347.3	9347.3	9347.3	9347.3
2.5°	9337.1	9338.0	9331.6	9345.4	9356.5	9320.5	9299.3	9347.3	9301.1
5°	9304.8	9311.3	9303.9	9321.4	9327.0	9297.5	9264.3	9315.9	9270.7
7.5°	9249.5	9262.4	9273.5	9293.8	9279.0	9242.1	9220.0	9280.9	9225.5
10°	9166.5	9198.8	9222.8	9253.2	9217.2	9177.6	9150.8	9233.8	9196.9
12.5°	9073.4	9110.3	9150.8	9187.7	9133.3	9075.2	9061.4	9149.9	9116.7
15°	8942.4	8976.5	9042.0	9077.1	9014.3	8947.9	8934.1	9046.6	9020.8
17.5°	8788.4	8848.4	8903.7	8931.3	8852.0	8794.9	8787.5	8903.7	8893.5
20°	8636.2	8668.5	8725.7	8762.6	8687.0	8618.7	8616.0	8735.8	8725.7
22.5°	8443.5	8472.1	8509.9	8544.0	8473.0	8415.8	8419.5	8518.2	8516.4
25°	8188.1	8207.4	8234.2	8272.0	8197.3	8156.7	8149.3	8254.5	8243.4
27.5°	7890.2	7903.1	7933.5	7965.8	7901.3	7865.3	7852.4	7957.5	7920.6
30°	7527.8	7557.3	7578.5	7592.3	7544.4	7522.3	7513.0	7596.0	7578.5
32.5°	7143.2	7153.4	7154.3	7188.4	7137.7	7106.3	7106.3	7172.7	7133.1
35°	6684.9	6683.1	6688.6	6725.5	6672.9	6684.0	6667.4	6720.0	6711.7
37.5°	6182.3	6190.6	6192.5	6222.0	6192.5	6199.8	6193.4	6201.7	6174.9
40°	5605.0	5641.0	5653.0	5647.5	5590.3	5570.9	5554.3	5584.7	5550.6
42.5°	4888.5	4905.1	4906.9	4910.6	4894.9	4892.2	4871.9	4884.8	4831.3
45°	4132.3	4139.7	4124.0	4121.2	4131.4	4147.1	4109.2	4079.7	4027.2
47.5°	3441.6	3415.8	3344.8	3370.6	3381.6	3421.3	3380.7	3301.4	3258.1
50°	2714.9	2688.2	2633.8	2645.7	2689.1	2749.0	2702.0	2592.3	2534.2
52.5°	2074.0	2043.6	1982.7	1993.8	2006.7	2051.9	2027.0	1952.3	1896.0
55°	1484.7	1463.5	1483.8	1467.2	1473.6	1517.0	1482.9	1421.1	1406.3
57.5°	1003.3	1015.3	1031.9	1034.7	1021.8	1008.9	1004.3	980.3	993.2
60°	664.9	674.1	701.8	710.1	690.7	663.0	668.6	668.6	680.6
62.5°	429.7	438.0	470.3	475.8	448.2	440.8	440.8	438.0	460.2
65°	273.9	290.5	300.6	285.9	285.0	274.8	283.1	283.1	289.6
67.5°	164.1	149.4	159.5	166.0	159.5	151.2	149.4	150.3	159.5
70°	95.0	91.3	97.8	94.1	97.8	84.8	95.0	90.4	93.1
72.5°	60.9	59.9	59.9	63.6	59.9	58.1	61.8	53.5	59.0
75°	56.3	56.3	56.3	48.9	56.3	54.4	57.2	43.3	48.9
77.5°	22.1	25.8	31.4	30.4	30.4	28.6	25.8	22.1	34.1
80°	20.3	18.4	24.9	29.5	18.4	22.1	24.9	15.7	16.6
82.5°	10.1	9.2	12.0	12.0	12.0	6.5	16.6	10.1	8.3
85°	8.3	3.7	5.5	5.5	5.5	7.4	16.6	4.6	12.0
87.5°	1.8	2.8	4.6	4.6	5.5	9.2	16.6	3.7	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)