

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: P248123

Luminaire Tested: **LSR8B150D010 EC8B150930 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150930 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13781.6 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

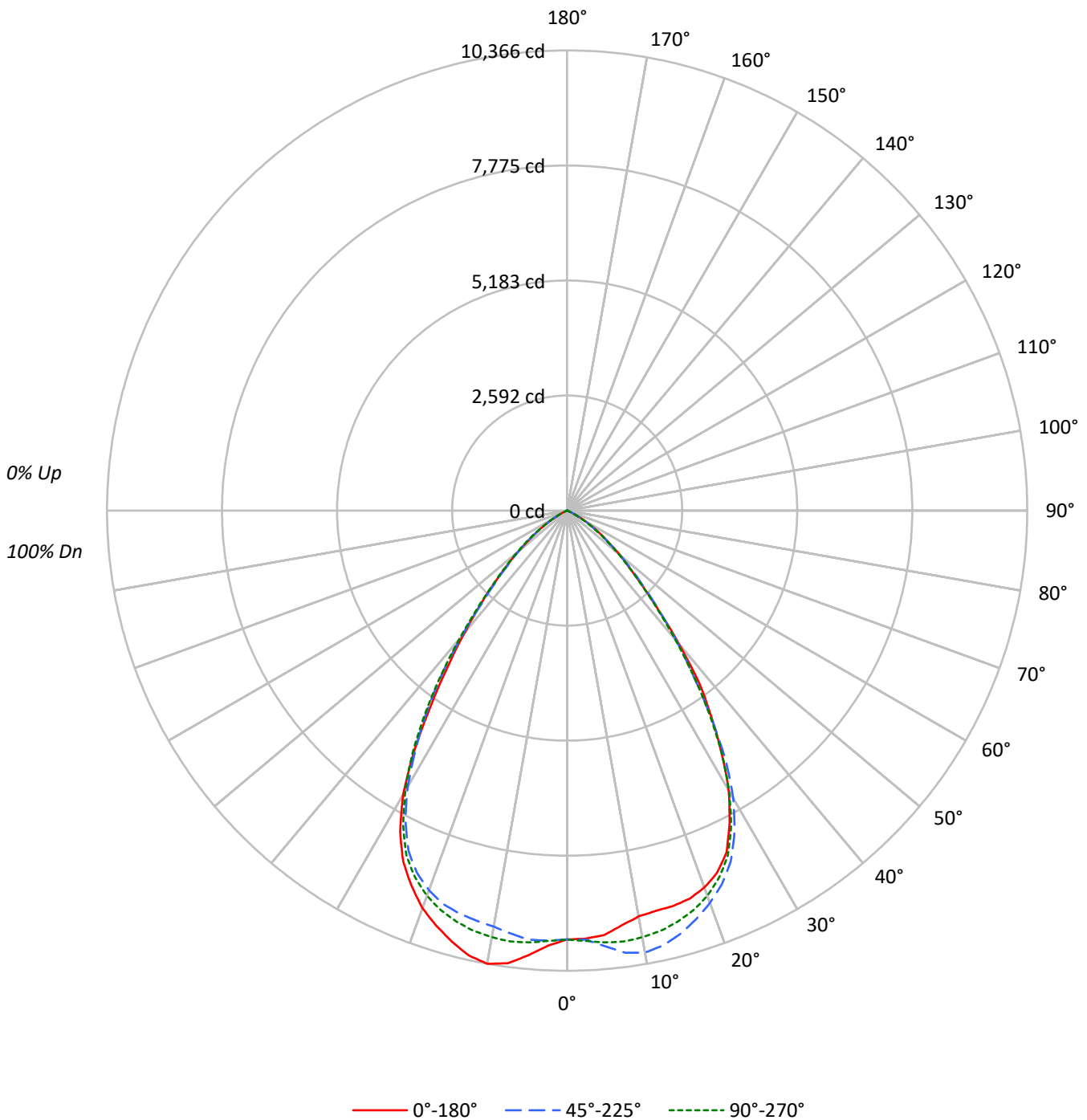
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	100			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84	84	84	84			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76	76	76	76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69	69	69	69			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63	63	63	63			
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58	58	58	58			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53	53	53	53			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49	49	49	49			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45	45	45	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42	42	42	42			

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°	934.6	6.8
10°-20°	2710.3	19.7
20°-30°	3892.2	28.2
30°-40°	3440.5	25.0
40°-50°	1883.3	13.7
50°-60°	775.3	5.6
60°-70°	138.9	1.0
70°-80°	6.0	0.0
80°-90°	0.5	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°	7537.1	54.7
0°-40°	10977.6	79.7
0°-60°	13636.2	98.9
0°-90°	13781.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13781.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9662	9662	9662	9662	9662	
5°	9596	9854	9764	9704	10055	904
15°	9219	9870	9593	9395	10048	2604
25°	8491	8721	8571	8458	8735	3841
35°	5656	5605	5572	5496	5331	3508
45°	2392	2462	2374	2272	2339	1925
55°	917	874	835	808	789	831
65°	147	115	106	85	88	171
75°	7	3	4	5	5	11
85°	2	2	0	5	0	0
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°	9661.6	9661.6	9661.6	9661.6	9661.6	9661.6	9661.6	9661.6	9661.6
2.5°	9649.1	9666.5	9674.7	9718.5	9703.6	9683.0	9694.5	9730.1	9806.8
5°	9596.3	9688.8	9853.9	9910.1	9763.9	9636.8	9704.5	9898.5	10055.4
7.5°	9422.0	9654.9	10045.5	10130.6	9791.9	9499.7	9617.7	10036.4	10284.2
10°	9282.4	9571.5	10108.3	10234.6	9758.1	9380.0	9517.9	10029.8	10365.9
12.5°	9235.5	9502.2	10029.0	10171.8	9701.1	9337.8	9459.2	9933.2	10261.9
15°	9218.9	9432.8	9870.4	9985.2	9593.0	9296.6	9394.8	9775.5	10048.0
17.5°	9167.7	9327.1	9653.3	9746.5	9444.3	9214.7	9290.7	9586.3	9805.2
20°	9035.6	9171.0	9405.5	9470.8	9232.1	9052.1	9100.8	9322.9	9531.1
22.5°	8829.1	8916.7	9106.6	9137.9	8948.8	8805.2	8835.7	9001.7	9153.6
25°	8491.4	8552.6	8720.9	8729.2	8570.7	8445.2	8457.5	8596.3	8735.1
27.5°	7923.2	8038.9	8162.8	8198.2	7999.2	7852.3	7890.3	7982.8	8145.4
30°	7278.3	7363.4	7484.8	7457.6	7297.4	7165.2	7180.9	7263.5	7384.8
32.5°	6474.0	6564.0	6626.0	6569.8	6488.9	6370.9	6335.3	6370.9	6403.8
35°	5655.7	5686.3	5605.3	5573.2	5572.3	5535.9	5496.4	5389.0	5331.1
37.5°	4874.6	4778.7	4633.4	4571.4	4642.5	4730.8	4611.9	4471.6	4398.9
40°	3907.6	3910.0	3819.1	3754.8	3781.2	3751.4	3699.4	3609.4	3588.0
42.5°	3054.5	3063.6	3092.5	3056.2	2992.6	2896.0	2867.1	2871.2	2934.8
45°	2392.2	2410.4	2462.5	2457.5	2374.1	2313.0	2272.5	2329.6	2338.6
47.5°	1902.6	1928.1	1949.6	1948.0	1883.6	1822.5	1804.4	1815.0	1837.3
50°	1538.5	1535.9	1519.4	1498.0	1471.5	1459.1	1438.5	1436.8	1436.8
52.5°	1185.0	1189.2	1156.1	1157.8	1145.3	1110.7	1101.6	1083.4	1083.4
55°	917.4	900.9	874.5	848.9	834.8	810.9	807.6	788.6	789.4
57.5°	651.5	636.6	605.3	589.6	578.9	572.3	558.3	543.3	536.7
60°	450.1	437.6	420.3	404.7	390.6	387.3	374.1	359.2	355.9
62.5°	271.7	268.4	237.9	232.0	221.3	216.4	207.3	197.4	198.2
65°	147.0	125.6	114.8	108.2	105.7	92.5	85.1	83.4	87.6
67.5°	39.7	39.7	32.2	30.6	30.6	22.3	25.6	24.8	32.2
70°	34.6	24.8	21.5	17.4	19.8	11.5	21.5	17.4	16.5
72.5°	18.2	9.9	8.3	8.3	9.1	5.8	13.2	7.4	5.8
75°	7.4	4.9	3.3	1.7	4.1	4.1	4.9	1.7	4.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.7	2.5	1.7	0.0	0.0	0.0	4.9	0.0	0.0
87.5°	0.0	1.7	0.8	0.0	0.0	0.0	1.7	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)