

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: P248195

Luminaire Tested: **LSR8B150D010 EC8B150930 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150930 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11991.3 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

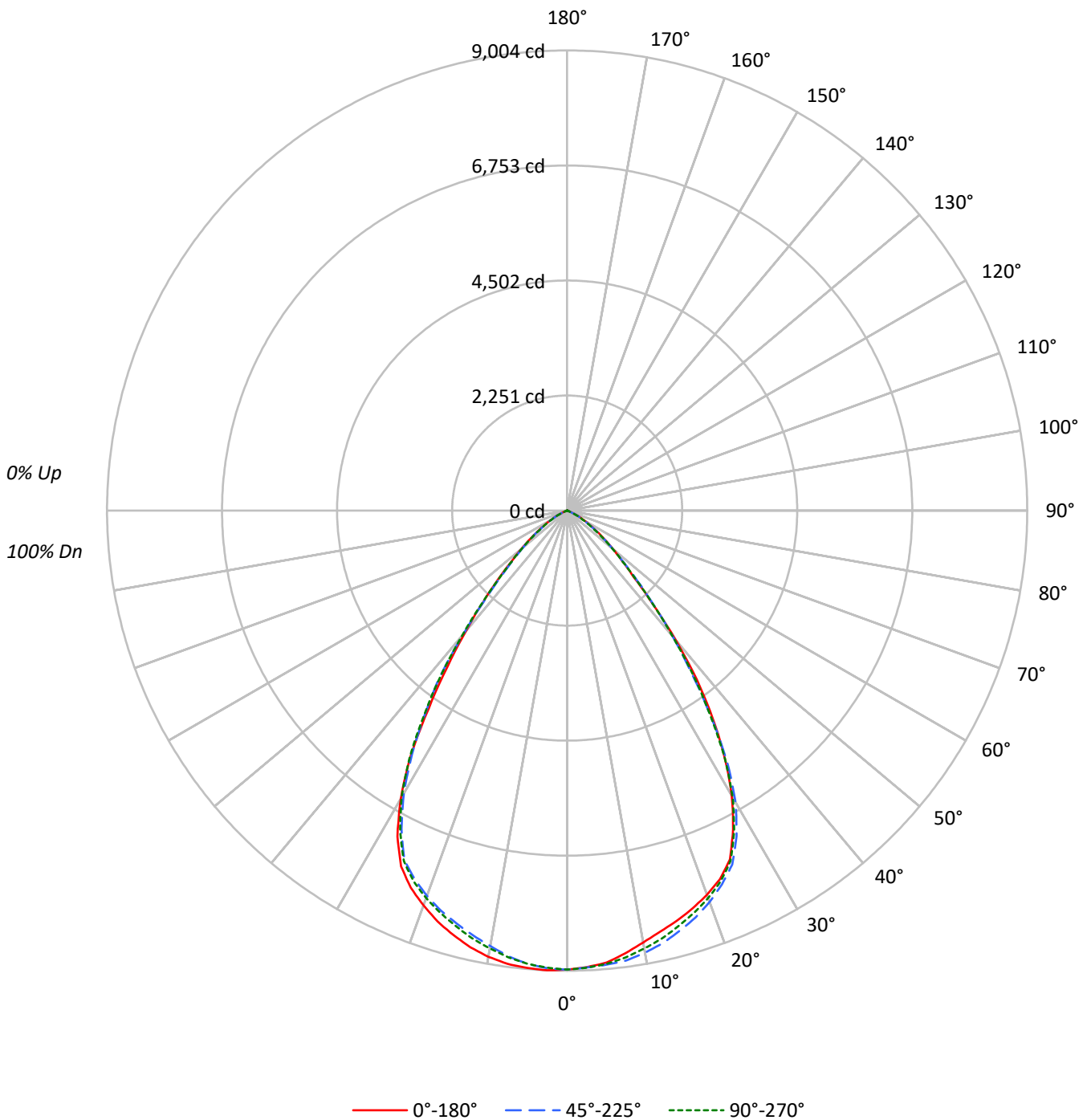
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	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°	844.5	7.0
10°-20°	2379.0	19.8
20°-30°	3430.5	28.6
30°-40°	3012.8	25.1
40°-50°	1523.4	12.7
50°-60°	623.6	5.2
60°-70°	163.9	1.4
70°-80°	11.6	0.1
80°-90°	2.1	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°	6654.0	55.5
0°-40°	9666.8	80.6
0°-60°	11813.8	98.5
0°-90°	11991.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11991.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8981	8981	8981	8981	8981	
5°	8878	8919	8903	8903	8984	837
15°	8307	8512	8418	8364	8599	2344
25°	7534	7642	7564	7537	7685	3404
35°	4967	4882	4867	4846	4724	3062
45°	1854	1941	1885	1837	1923	1530
55°	705	677	656	654	676	652
65°	178	158	141	140	152	182
75°	5	3	10	3	6	13
85°	2	2	2	1	2	3
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°	8981.3	8981.3	8981.3	8981.3	8981.3	8981.3	8981.3	8981.3	8981.3
2.5°	8940.1	8983.8	8945.0	8968.1	8952.4	8926.9	8962.4	8945.8	9003.6
5°	8878.1	8931.0	8918.6	8947.5	8902.9	8855.8	8902.9	8907.0	8983.8
7.5°	8736.8	8827.8	8879.8	8914.4	8816.2	8739.4	8795.5	8845.9	8945.0
10°	8579.1	8689.0	8783.1	8836.8	8700.5	8588.2	8655.1	8741.0	8865.8
12.5°	8433.8	8555.2	8666.7	8718.7	8575.1	8448.8	8512.3	8618.8	8752.5
15°	8306.6	8406.6	8512.3	8566.0	8418.1	8298.4	8363.7	8461.9	8599.0
17.5°	8161.3	8255.5	8348.8	8390.9	8253.8	8149.8	8209.2	8293.5	8429.7
20°	7998.7	8079.6	8150.6	8200.1	8068.8	7969.7	8023.4	8101.9	8220.0
22.5°	7807.9	7869.0	7915.3	7959.8	7853.3	7755.1	7801.3	7863.3	7987.9
25°	7533.7	7595.7	7641.9	7692.3	7564.3	7480.1	7537.0	7563.5	7684.8
27.5°	7031.6	7110.1	7179.4	7224.1	7077.9	7005.2	7020.0	7063.9	7192.7
30°	6443.6	6481.6	6587.3	6600.6	6476.7	6350.4	6390.8	6437.1	6513.0
32.5°	5745.0	5766.5	5827.6	5834.2	5741.8	5644.3	5645.1	5624.5	5701.3
35°	4967.2	4918.4	4882.1	4906.8	4867.3	4884.5	4846.5	4751.6	4723.6
37.5°	4163.6	4132.2	3972.9	3960.5	4053.0	4109.1	4072.0	3860.6	3845.7
40°	3294.1	3258.6	3199.1	3190.0	3202.5	3234.6	3166.0	3103.4	3084.3
42.5°	2465.0	2484.0	2503.0	2520.3	2484.8	2415.4	2412.2	2400.6	2445.1
45°	1853.9	1894.4	1940.6	1963.8	1885.3	1831.6	1837.4	1863.0	1923.3
47.5°	1465.8	1474.0	1491.4	1511.2	1464.9	1396.4	1414.6	1455.8	1482.3
50°	1164.4	1172.7	1167.6	1165.2	1142.9	1101.6	1127.2	1157.8	1166.8
52.5°	918.3	907.6	898.5	892.7	878.6	862.2	867.1	892.7	906.8
55°	705.2	696.9	677.2	668.9	655.7	651.5	654.0	673.8	676.3
57.5°	530.1	518.6	498.7	483.0	483.9	477.3	480.6	494.7	502.1
60°	398.9	391.5	356.7	359.2	347.6	346.1	353.5	361.7	365.0
62.5°	275.8	278.3	251.9	248.5	242.8	243.6	248.5	255.1	256.0
65°	177.6	166.8	157.7	151.1	141.2	136.2	139.6	157.7	151.9
67.5°	69.4	73.5	59.4	69.4	64.5	54.5	62.8	70.2	66.9
70°	38.0	38.8	32.2	30.6	32.2	29.7	33.9	38.0	28.9
72.5°	24.0	24.0	17.4	17.4	22.3	14.9	17.4	27.2	21.5
75°	4.9	5.8	3.3	1.7	9.9	4.9	3.3	9.9	5.8
77.5°	0.0	5.8	0.0	0.0	0.0	0.0	1.7	1.7	1.7
80°	0.0	0.0	0.0	2.5	0.0	0.0	0.0	1.7	1.7
82.5°	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0
85°	1.7	6.6	1.7	0.0	1.7	1.7	0.8	4.9	1.7
87.5°	10.8	4.9	0.8	4.9	4.1	4.9	5.8	4.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)