

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: P247952

Luminaire Tested: **LSR8B150D010 EC8B150835 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247952
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 EC8B150835 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17628.0 lumens
Efficiency: N/A
Efficacy: 111.2 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

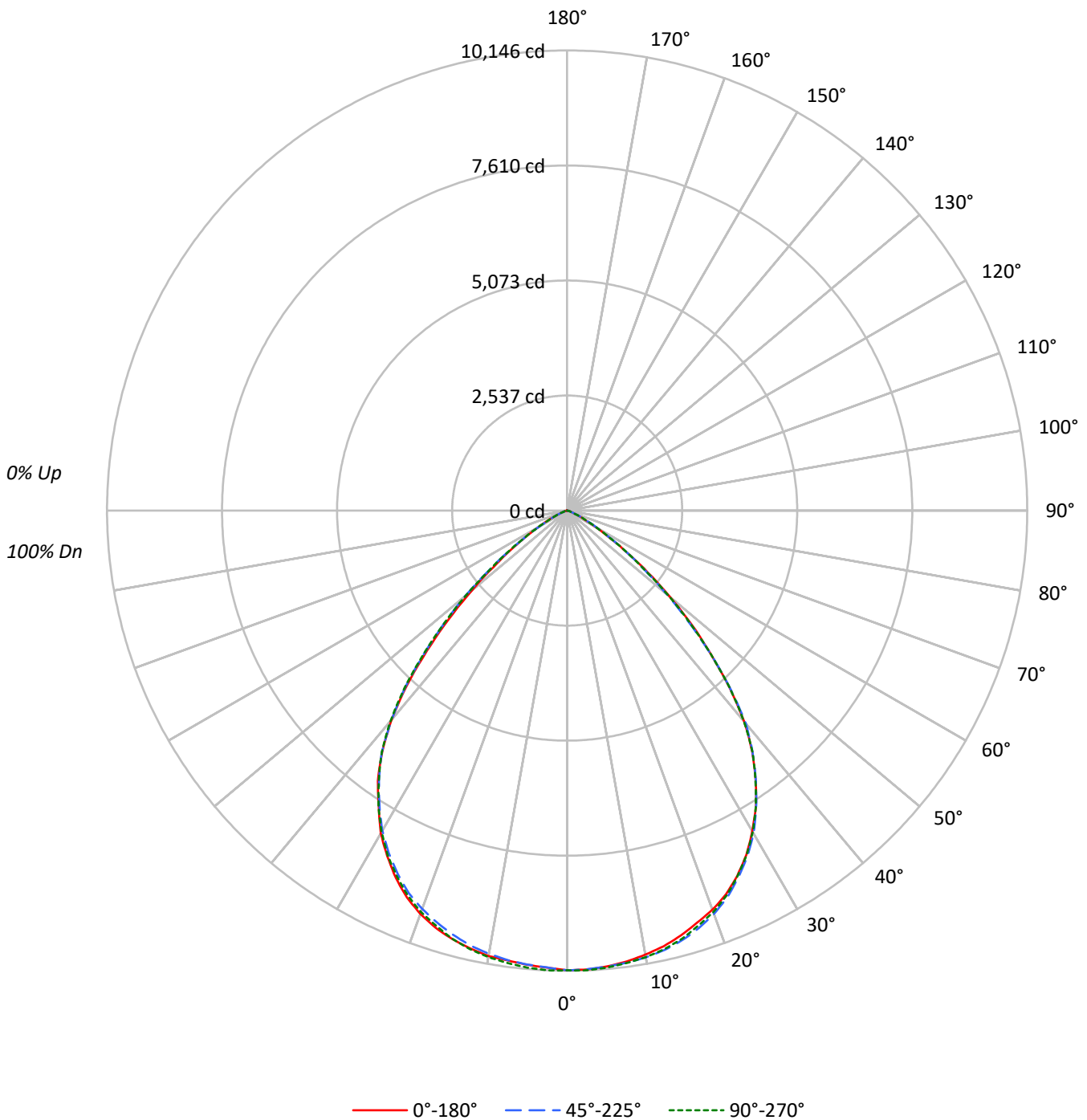
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	312563	312563	312563
5°	312333	313076	311188
10°	311248	312970	312281
15°	309571	312064	312288
20°	307319	309124	310502
25°	302103	302444	304145
30°	290661	291302	292619
35°	272886	272397	273978
40°	244668	244023	242293
45°	195417	195373	190445
50°	141232	139889	131829
55°	86556	85911	81986
60°	44466	46193	45514
65°	21671	22546	22911
70°	9286	9557	9106
75°	7268	7268	6315
80°	3907	3552	3196
85°	3184	2123	4599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	959.7	5.4
10°-20°	2752.7	15.6
20°-30°	4089.5	23.2
30°-40°	4506.7	25.6
40°-50°	3432.6	19.5
50°-60°	1479.7	8.4
60°-70°	339.9	1.9
70°-80°	56.5	0.3
80°-90°	10.6	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°	7801.9	44.3
0°-40°	12308.6	69.8
0°-60°	17220.9	97.7
0°-90°	17628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17628.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10136	10136	10136	10136	10136	
5°	10090	10089	10114	10046	10053	958
15°	9697	9805	9775	9688	9782	2735
25°	8879	8929	8889	8837	8939	4075
35°	7249	7253	7236	7230	7278	4501
45°	4481	4472	4480	4456	4367	3457
55°	1610	1609	1598	1608	1525	1501
65°	297	326	309	307	314	332
75°	61	61	61	62	53	56
85°	9	6	6	18	13	9
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°	10136.2	10136.2	10136.2	10136.2	10136.2	10136.2	10136.2	10136.2	10136.2
2.5°	10125.2	10126.2	10119.2	10134.2	10146.2	10107.2	10084.2	10136.2	10086.2
5°	10090.2	10097.2	10089.2	10108.2	10114.2	10082.2	10046.2	10102.2	10053.2
7.5°	10030.2	10044.2	10056.2	10078.2	10062.2	10022.2	9998.2	10064.2	10004.2
10°	9940.2	9975.2	10001.2	10034.2	9995.2	9952.2	9923.2	10013.2	9973.2
12.5°	9839.2	9879.2	9923.2	9963.2	9904.2	9841.2	9826.2	9922.2	9886.2
15°	9697.1	9734.1	9805.2	9843.2	9775.2	9703.1	9688.1	9810.2	9782.2
17.5°	9530.1	9595.1	9655.1	9685.1	9599.1	9537.1	9529.1	9655.1	9644.1
20°	9365.1	9400.1	9462.1	9502.1	9420.1	9346.1	9343.1	9473.1	9462.1
22.5°	9156.1	9187.1	9228.1	9265.1	9188.1	9126.1	9130.1	9237.1	9235.1
25°	8879.1	8900.1	8929.1	8970.1	8889.1	8845.1	8837.1	8951.1	8939.1
27.5°	8556.1	8570.1	8603.1	8638.1	8568.1	8529.1	8515.1	8629.1	8589.1
30°	8163.1	8195.1	8218.1	8233.1	8181.1	8157.1	8147.1	8237.1	8218.1
32.5°	7746.1	7757.1	7758.1	7795.1	7740.1	7706.1	7706.1	7778.1	7735.1
35°	7249.1	7247.1	7253.1	7293.1	7236.1	7248.1	7230.1	7287.1	7278.1
37.5°	6704.1	6713.1	6715.1	6747.1	6715.1	6723.1	6716.1	6725.1	6696.1
40°	6078.1	6117.1	6130.1	6124.1	6062.1	6041.1	6023.1	6056.1	6019.1
42.5°	5301.1	5319.1	5321.1	5325.1	5308.1	5305.1	5283.1	5297.1	5239.1
45°	4481.1	4489.1	4472.1	4469.1	4480.1	4497.1	4456.1	4424.1	4367.1
47.5°	3732.1	3704.1	3627.1	3655.1	3667.1	3710.1	3666.1	3580.1	3533.1
50°	2944.0	2915.0	2856.0	2869.0	2916.0	2981.0	2930.0	2811.0	2748.0
52.5°	2249.0	2216.0	2150.0	2162.0	2176.0	2225.0	2198.0	2117.0	2056.0
55°	1610.0	1587.0	1609.0	1591.0	1598.0	1645.0	1608.0	1541.0	1525.0
57.5°	1088.0	1101.0	1119.0	1122.0	1108.0	1094.0	1089.0	1063.0	1077.0
60°	721.0	731.0	761.0	770.0	749.0	719.0	725.0	725.0	738.0
62.5°	466.0	475.0	510.0	516.0	486.0	478.0	478.0	475.0	499.0
65°	297.0	315.0	326.0	310.0	309.0	298.0	307.0	307.0	314.0
67.5°	178.0	162.0	173.0	180.0	173.0	164.0	162.0	163.0	173.0
70°	103.0	99.0	106.0	102.0	106.0	92.0	103.0	98.0	101.0
72.5°	66.0	65.0	65.0	69.0	65.0	63.0	67.0	58.0	64.0
75°	61.0	61.0	61.0	53.0	61.0	59.0	62.0	47.0	53.0
77.5°	24.0	28.0	34.0	33.0	33.0	31.0	28.0	24.0	37.0
80°	22.0	20.0	27.0	32.0	20.0	24.0	27.0	17.0	18.0
82.5°	11.0	10.0	13.0	13.0	13.0	7.0	18.0	11.0	9.0
85°	9.0	4.0	6.0	6.0	6.0	8.0	18.0	5.0	13.0
87.5°	2.0	3.0	5.0	5.0	6.0	10.0	18.0	4.0	15.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)