

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: P248129

Luminaire Tested: **LD8B150D010 ER8B150830 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B150D010 ER8B150830 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17377.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

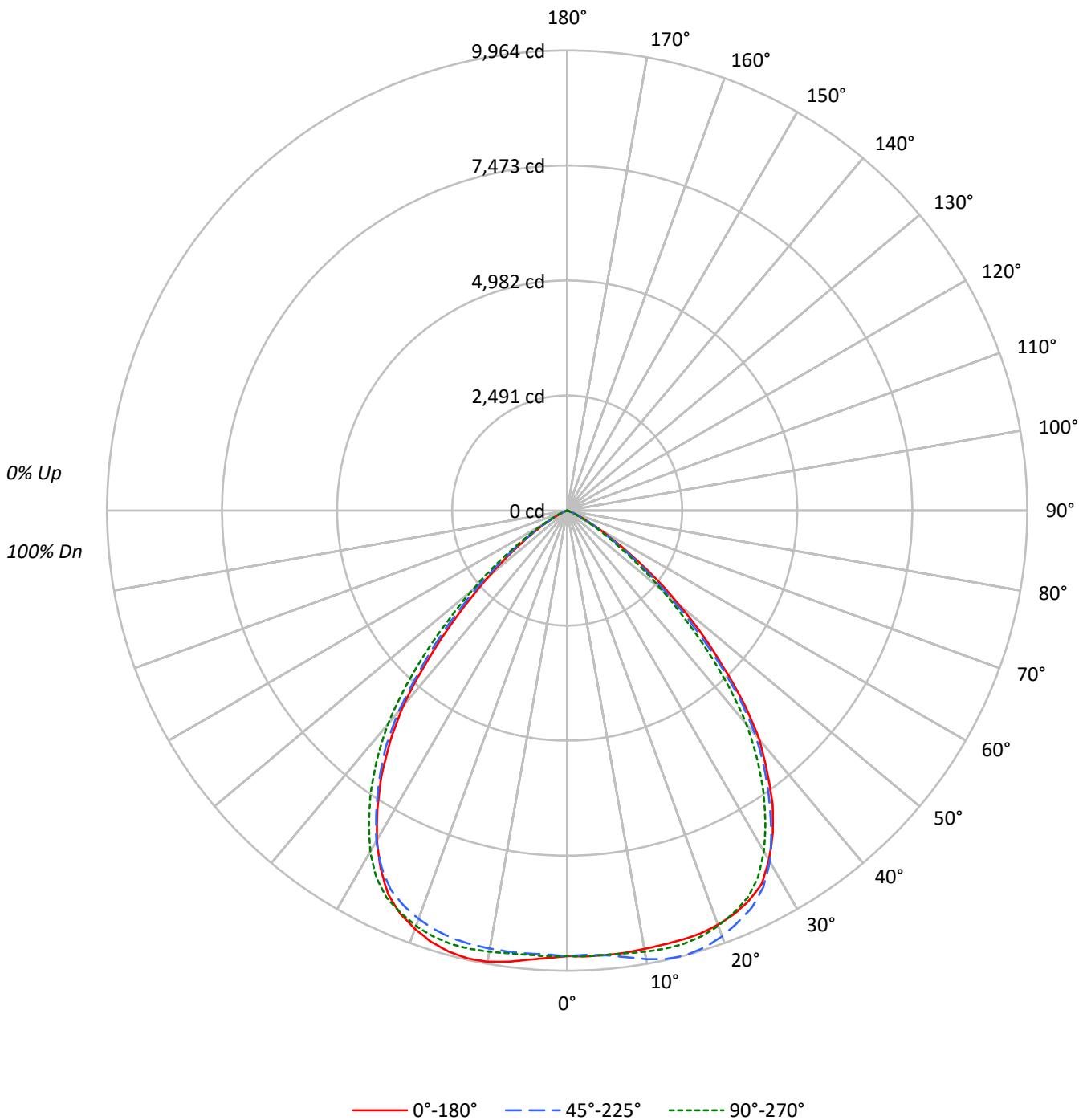
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73					73			
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	297481	297481	297481
5°	299063	298853	302158
10°	301829	303636	310590
15°	307113	310184	315650
20°	313226	314046	316192
25°	317043	314655	311906
30°	311074	303472	293268
35°	291840	278846	263607
40°	260709	243057	222540
45°	207920	187157	162209
50°	150620	128572	104720
55°	93421	75997	60073
60°	48037	37781	30189
65°	20489	15366	11791
70°	6500	3210	2083
75°	1716	1037	1037
80°	1367	852	675
85°	1026	354	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	925.0	5.3
10°-20°	2753.1	15.8
20°-30°	4231.7	24.4
30°-40°	4574.5	26.3
40°-50°	3291.7	18.9
50°-60°	1328.3	7.6
60°-70°	255.4	1.5
70°-80°	15.2	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°	7909.8	45.5
0°-40°	12484.3	71.8
0°-60°	17104.3	98.4
0°-90°	17377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17377.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9647	9647	9647	9647	9647	
5°	9662	9664	9655	9627	9762	921
15°	9620	9964	9716	9588	9888	2723
25°	9318	9478	9248	9049	9167	4275
35°	7753	7630	7407	7087	7003	4801
45°	4768	4626	4292	3940	3720	3683
55°	1738	1607	1414	1221	1117	1620
65°	281	287	211	164	162	329
75°	14	12	9	9	9	24
85°	3	2	1	1	1	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°	9647.1	9647.1	9647.1	9647.1	9647.1	9647.1	9647.1	9647.1	9647.1
2.5°	9661.5	9648.0	9628.8	9627.8	9658.6	9641.3	9620.1	9642.2	9697.1
5°	9661.5	9663.4	9664.4	9655.7	9654.7	9625.9	9626.9	9686.5	9761.5
7.5°	9654.7	9692.2	9750.9	9737.4	9670.1	9606.7	9632.6	9752.8	9852.8
10°	9639.4	9726.9	9861.5	9841.3	9697.1	9589.4	9630.7	9798.0	9919.2
12.5°	9625.9	9746.1	9945.2	9921.1	9719.2	9577.8	9619.2	9803.8	9934.6
15°	9620.1	9749.9	9964.4	9934.6	9716.3	9554.7	9588.4	9761.5	9887.5
17.5°	9599.0	9720.1	9916.3	9879.8	9666.3	9500.9	9515.3	9673.0	9792.3
20°	9545.1	9649.0	9809.6	9759.6	9570.1	9403.8	9408.6	9527.8	9635.5
22.5°	9453.8	9535.5	9651.9	9603.8	9426.8	9275.9	9255.7	9355.7	9446.1
25°	9318.2	9384.5	9477.8	9425.9	9248.0	9094.1	9048.9	9112.4	9167.2
27.5°	9119.1	9142.2	9195.1	9115.3	8950.8	8799.9	8705.6	8715.2	8744.1
30°	8736.4	8773.9	8778.7	8687.3	8522.9	8347.9	8261.3	8213.3	8236.3
32.5°	8286.3	8275.8	8227.7	8117.1	7988.2	7848.8	7685.3	7630.5	7643.0
35°	7752.6	7727.6	7629.6	7523.8	7407.4	7236.3	7087.2	7006.4	7002.6
37.5°	7102.6	7068.9	7004.5	6858.3	6751.6	6607.3	6444.8	6355.4	6288.1
40°	6476.6	6423.7	6347.7	6172.7	6038.1	5837.1	5670.7	5546.7	5528.4
42.5°	5668.8	5642.8	5534.2	5358.2	5189.9	4952.4	4759.1	4655.2	4601.4
45°	4767.8	4767.8	4626.4	4471.6	4291.7	4114.8	3939.8	3785.0	3719.6
47.5°	3960.9	3860.9	3727.3	3561.9	3430.1	3305.1	3119.5	2929.1	2884.9
50°	3139.7	3076.2	2918.5	2760.8	2680.1	2560.8	2414.6	2230.0	2182.9
52.5°	2426.2	2326.2	2189.6	2072.3	1996.3	1903.1	1744.4	1618.4	1594.4
55°	1737.7	1686.7	1606.9	1510.7	1413.6	1315.5	1221.3	1149.1	1117.4
57.5°	1190.5	1173.2	1106.8	1050.1	955.9	869.3	782.8	759.7	761.6
60°	778.9	778.0	745.3	694.3	612.6	533.7	493.3	481.8	489.5
62.5°	471.2	479.9	471.2	441.4	378.9	318.3	289.5	295.2	290.4
65°	280.8	289.5	286.6	248.1	210.6	184.6	164.4	156.7	161.6
67.5°	163.5	158.7	146.2	127.9	104.8	86.5	73.1	66.4	67.3
70°	72.1	68.3	61.5	47.1	35.6	28.8	24.0	22.1	23.1
72.5°	26.9	26.0	22.1	18.3	15.4	12.5	11.5	11.5	11.5
75°	14.4	13.5	11.5	9.6	8.7	8.7	8.7	8.7	8.7
77.5°	10.6	9.6	8.7	7.7	6.7	5.8	5.8	5.8	5.8
80°	7.7	6.7	5.8	4.8	4.8	3.8	3.8	3.8	3.8
82.5°	4.8	4.8	3.8	2.9	2.9	1.9	1.9	1.9	1.9
85°	2.9	2.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)