

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: P247906

Luminaire Tested: **LD8B200D010 ER8B200927 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200927 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18907.9 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

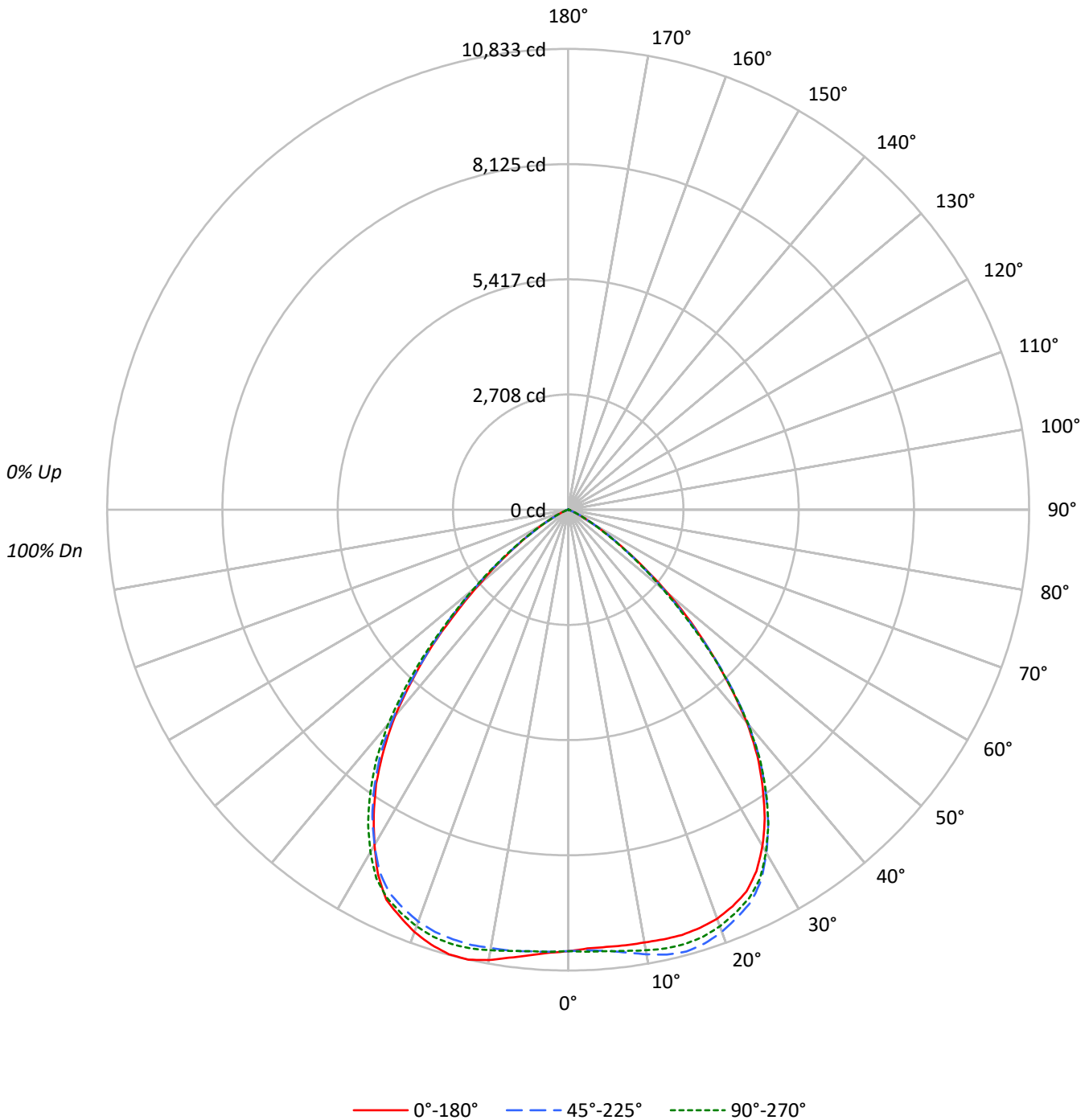
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

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°	998.0	5.3
10°-20°	2988.0	15.8
20°-30°	4592.3	24.3
30°-40°	4968.0	26.3
40°-50°	3580.8	18.9
50°-60°	1453.6	7.7
60°-70°	290.3	1.5
70°-80°	29.1	0.2
80°-90°	7.8	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°	8578.3	45.4
0°-40°	13546.3	71.6
0°-60°	18580.7	98.3
0°-90°	18907.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18907.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10377	10377	10377	10377	10377	
5°	10318	10406	10417	10421	10514	986
15°	10349	10750	10573	10456	10819	2924
25°	9907	10171	10069	9940	10118	4528
35°	7966	8083	8106	7940	7867	4947
45°	4734	4757	4696	4538	4516	3651
55°	1623	1573	1565	1512	1466	1523
65°	252	273	243	231	249	300
75°	23	28	25	24	25	30
85°	9	14	18	8	7	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°	10377.3	10377.3	10377.3	10377.3	10377.3	10377.3	10377.3	10377.3	10377.3
2.5°	10324.1	10389.8	10367.9	10339.8	10399.2	10387.7	10400.2	10405.5	10425.3
5°	10317.8	10391.8	10405.5	10375.2	10416.9	10397.1	10421.1	10465.9	10513.9
7.5°	10328.3	10439.9	10498.3	10480.5	10460.7	10393.0	10455.5	10558.7	10622.2
10°	10328.3	10476.3	10611.9	10610.8	10516.9	10390.8	10460.7	10639.0	10750.5
12.5°	10344.9	10526.4	10711.9	10724.4	10565.0	10405.5	10480.5	10691.1	10832.8
15°	10349.1	10527.4	10750.5	10756.8	10573.3	10385.7	10455.5	10681.8	10819.4
17.5°	10305.3	10477.4	10689.0	10710.9	10526.4	10335.6	10406.5	10608.8	10718.2
20°	10232.4	10386.7	10558.7	10595.1	10421.1	10239.6	10302.2	10476.3	10565.0
22.5°	10092.7	10233.4	10375.2	10402.3	10262.6	10104.2	10135.5	10270.9	10344.9
25°	9907.1	10046.8	10170.9	10185.5	10068.8	9926.9	9939.5	10042.6	10117.7
27.5°	9577.7	9710.1	9822.7	9840.4	9770.5	9619.4	9596.5	9645.4	9676.7
30°	9131.5	9222.2	9316.0	9372.3	9291.0	9165.8	9101.2	9127.4	9099.1
32.5°	8595.6	8688.4	8745.8	8763.4	8750.9	8641.5	8565.4	8499.7	8503.9
35°	7965.9	8050.4	8082.7	8115.0	8105.6	8020.1	7939.9	7878.4	7866.9
37.5°	7306.0	7362.3	7398.8	7423.9	7403.0	7348.7	7244.6	7138.1	7120.5
40°	6531.4	6616.9	6587.7	6600.3	6580.5	6511.6	6407.3	6346.9	6330.3
42.5°	5622.3	5697.4	5691.2	5695.3	5651.6	5557.7	5467.0	5433.6	5415.9
45°	4734.1	4770.6	4757.1	4713.3	4695.5	4637.1	4538.1	4474.5	4516.2
47.5°	3898.0	3885.5	3794.7	3759.3	3733.3	3741.6	3719.7	3608.2	3547.7
50°	3057.8	3025.5	2938.8	2885.7	2914.9	2937.8	2856.5	2789.8	2715.8
52.5°	2267.4	2273.7	2191.4	2133.0	2160.1	2164.3	2116.4	2078.8	2057.0
55°	1623.3	1623.3	1573.2	1554.4	1564.9	1545.1	1511.7	1499.2	1465.8
57.5°	1104.1	1111.4	1108.2	1086.3	1037.4	1019.6	1000.8	1019.6	1031.1
60°	710.0	727.6	724.5	722.5	680.7	639.1	656.8	673.4	675.6
62.5°	436.8	445.2	459.8	447.2	426.4	393.1	388.9	413.9	436.8
65°	252.3	261.7	273.2	264.8	242.9	237.7	231.4	245.0	249.2
67.5°	143.9	139.7	140.7	134.4	128.2	120.9	122.0	128.2	137.6
70°	76.0	65.7	66.7	60.4	65.7	58.4	56.2	61.5	63.6
72.5°	38.6	37.6	42.8	42.8	45.9	40.6	40.6	38.6	43.8
75°	23.0	26.1	28.1	31.3	25.0	24.0	24.0	24.0	25.0
77.5°	6.3	3.2	4.2	13.5	5.2	10.5	5.2	4.2	9.3
80°	17.8	10.5	6.3	11.5	12.5	6.3	15.6	14.6	4.2
82.5°	6.3	0.0	11.5	12.5	10.5	10.5	12.5	12.5	11.5
85°	9.3	6.3	13.5	15.6	17.8	10.5	8.3	5.2	7.3
87.5°	4.2	0.0	6.3	5.2	3.2	1.0	3.2	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)