

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: P248080

Luminaire Tested: **LD8B200D010 ER8B200940 8LBSOWMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200940 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20524.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

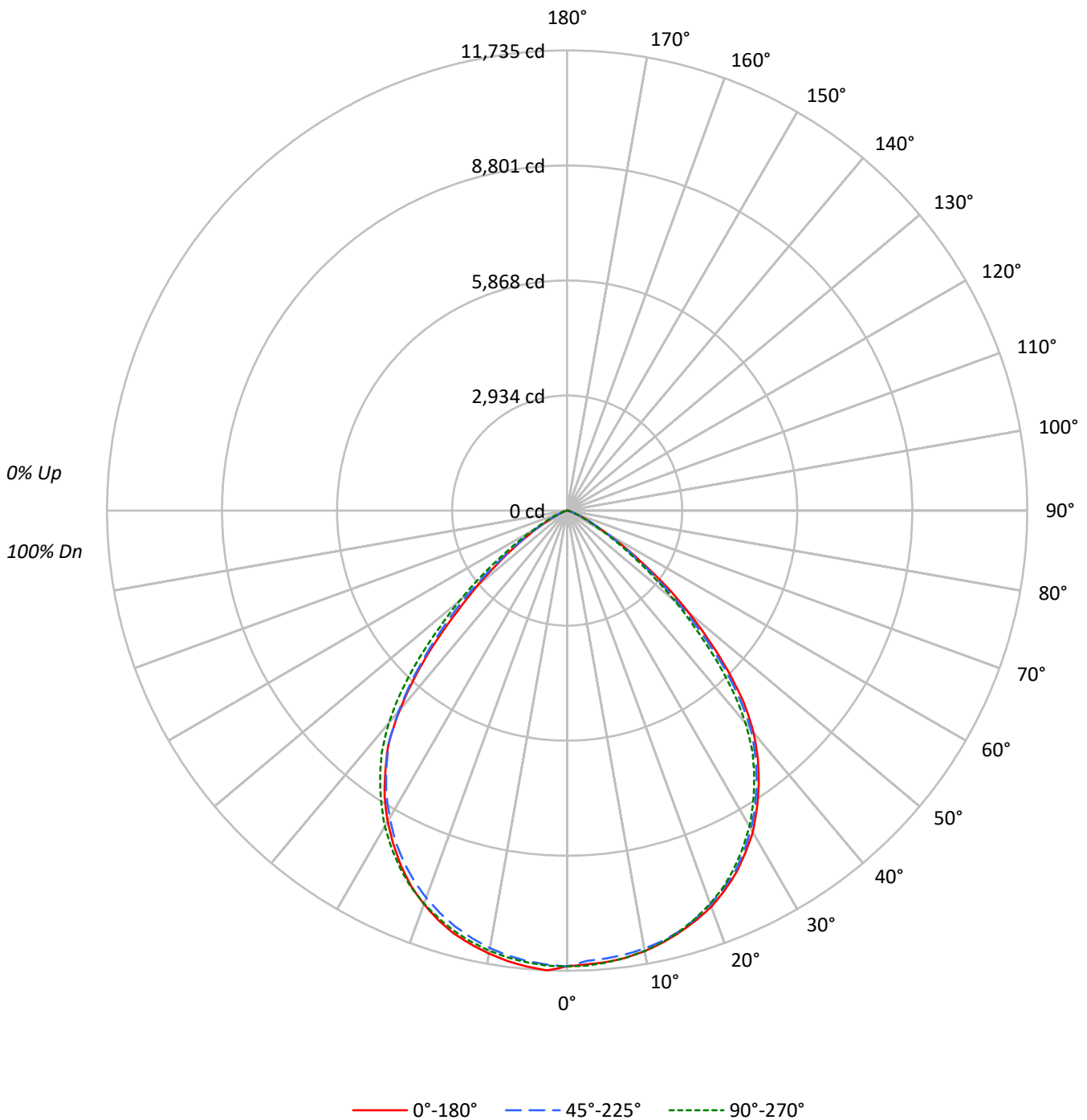
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	358457	358457	358457
5°	357737	358102	361296
10°	357233	357010	359199
15°	355172	354530	356458
20°	352798	349995	350540
25°	346835	342684	340626
30°	337096	331146	325912
35°	320777	313060	304357
40°	297879	285095	267487
45°	253905	233697	207488
50°	193335	172242	143693
55°	127452	111071	89470
60°	71565	62943	49418
65°	37533	33557	23874
70°	17951	15814	9936
75°	10163	11021	6922
80°	7796	7583	3996
85°	4599	3786	1663



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1097.8	5.3
10°-20°	3126.8	15.2
20°-30°	4619.3	22.5
30°-40°	5147.7	25.1
40°-50°	4065.3	19.8
50°-60°	1877.4	9.1
60°-70°	482.3	2.3
70°-80°	92.9	0.5
80°-90°	14.6	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°	8843.9	43.1
0°-40°	13991.6	68.2
0°-60°	19934.3	97.1
0°-90°	20524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20524.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11624	11624	11624	11624	11624	
5°	11557	11464	11569	11533	11672	###
15°	11126	11099	11105	10989	11166	3140
25°	10194	10146	10072	9870	10011	4684
35°	8521	8426	8316	8039	8085	5306
45°	5822	5653	5359	4931	4758	4444
55°	2371	2234	2066	1768	1664	2197
65°	514	522	460	352	327	565
75°	85	90	92	70	58	103
85°	13	13	11	6	5	18
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°	11624.5	11624.5	11624.5	11624.5	11624.5	11624.5	11624.5	11624.5	11624.5
2.5°	11580.7	11635.2	11496.5	11609.1	11613.9	11534.5	11589.0	11654.2	11734.8
5°	11557.0	11612.7	11464.5	11568.8	11568.8	11482.3	11533.3	11590.2	11672.0
7.5°	11501.3	11561.7	11415.9	11513.1	11497.7	11402.9	11447.9	11503.6	11591.4
10°	11408.8	11483.5	11341.2	11433.7	11401.7	11292.6	11331.8	11389.8	11471.6
12.5°	11282.0	11370.9	11238.1	11318.7	11267.8	11143.3	11175.3	11250.0	11330.6
15°	11125.5	11216.8	11099.4	11169.4	11105.4	10966.7	10989.2	11065.1	11165.8
17.5°	10951.3	11040.2	10908.6	10984.5	10899.1	10755.7	10764.0	10851.7	10943.0
20°	10751.0	10824.4	10689.3	10761.6	10665.6	10508.0	10509.1	10587.4	10682.2
22.5°	10487.8	10564.9	10425.0	10485.4	10397.7	10229.4	10209.3	10285.1	10376.4
25°	10193.8	10274.4	10146.4	10167.8	10071.8	9897.5	9870.2	9926.0	10011.3
27.5°	9841.8	9921.2	9776.6	9803.9	9698.4	9531.2	9494.5	9524.1	9591.7
30°	9467.2	9517.0	9379.5	9402.0	9300.1	9102.2	9046.4	9086.7	9153.1
32.5°	9006.1	9041.7	8924.4	8936.2	8826.0	8655.3	8581.8	8593.6	8661.2
35°	8521.3	8540.3	8426.5	8428.9	8316.3	8143.2	8038.9	8033.0	8085.1
37.5°	7986.8	7999.8	7884.8	7878.9	7762.7	7575.4	7466.4	7447.4	7479.4
40°	7400.0	7417.8	7298.1	7260.2	7082.4	6869.0	6691.2	6658.0	6645.0
42.5°	6688.8	6640.2	6514.6	6450.6	6271.6	5997.8	5833.0	5783.2	5740.6
45°	5822.3	5783.2	5652.8	5508.2	5358.9	5152.6	4931.0	4794.7	4757.9
47.5°	4913.2	4867.0	4679.7	4552.9	4405.9	4311.0	4072.8	3863.0	3771.7
50°	4030.1	3979.2	3770.5	3676.9	3590.4	3449.3	3218.2	3029.7	2995.3
52.5°	3213.4	3136.4	2957.4	2860.2	2783.2	2626.7	2418.1	2309.0	2250.9
55°	2370.7	2358.8	2234.3	2164.4	2066.0	1941.6	1768.5	1686.7	1664.2
57.5°	1727.0	1683.2	1635.8	1576.5	1491.1	1334.7	1228.0	1166.4	1161.6
60°	1160.4	1174.7	1174.7	1109.5	1020.6	918.6	833.3	800.1	801.3
62.5°	778.8	788.2	785.9	757.4	688.7	605.7	550.0	526.3	527.5
65°	514.4	512.1	521.5	501.4	459.9	401.8	352.0	339.0	327.2
67.5°	327.2	330.7	327.2	316.5	291.6	250.1	216.9	196.8	190.8
70°	199.1	194.4	195.6	193.2	175.4	155.3	131.6	115.0	110.2
72.5°	119.7	123.3	124.5	128.0	125.6	111.4	94.8	83.0	80.6
75°	85.3	86.5	90.1	93.6	92.5	83.0	69.9	61.6	58.1
77.5°	64.0	64.0	66.4	71.1	67.6	59.3	49.8	42.7	40.3
80°	43.9	45.0	46.2	46.2	42.7	37.9	29.6	24.9	22.5
82.5°	26.1	27.3	26.1	26.1	23.7	19.0	14.2	13.0	11.9
85°	13.0	13.0	13.0	13.0	10.7	8.3	5.9	4.7	4.7
87.5°	5.9	5.9	5.9	4.7	3.6	2.4	2.4	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)