

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: P248065

Luminaire Tested: **LD8B200D010 ER8B200840 8LBSOWMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248065
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 ER8B200840 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22893.0 lumens
Efficiency: N/A
Efficacy: 102.5 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

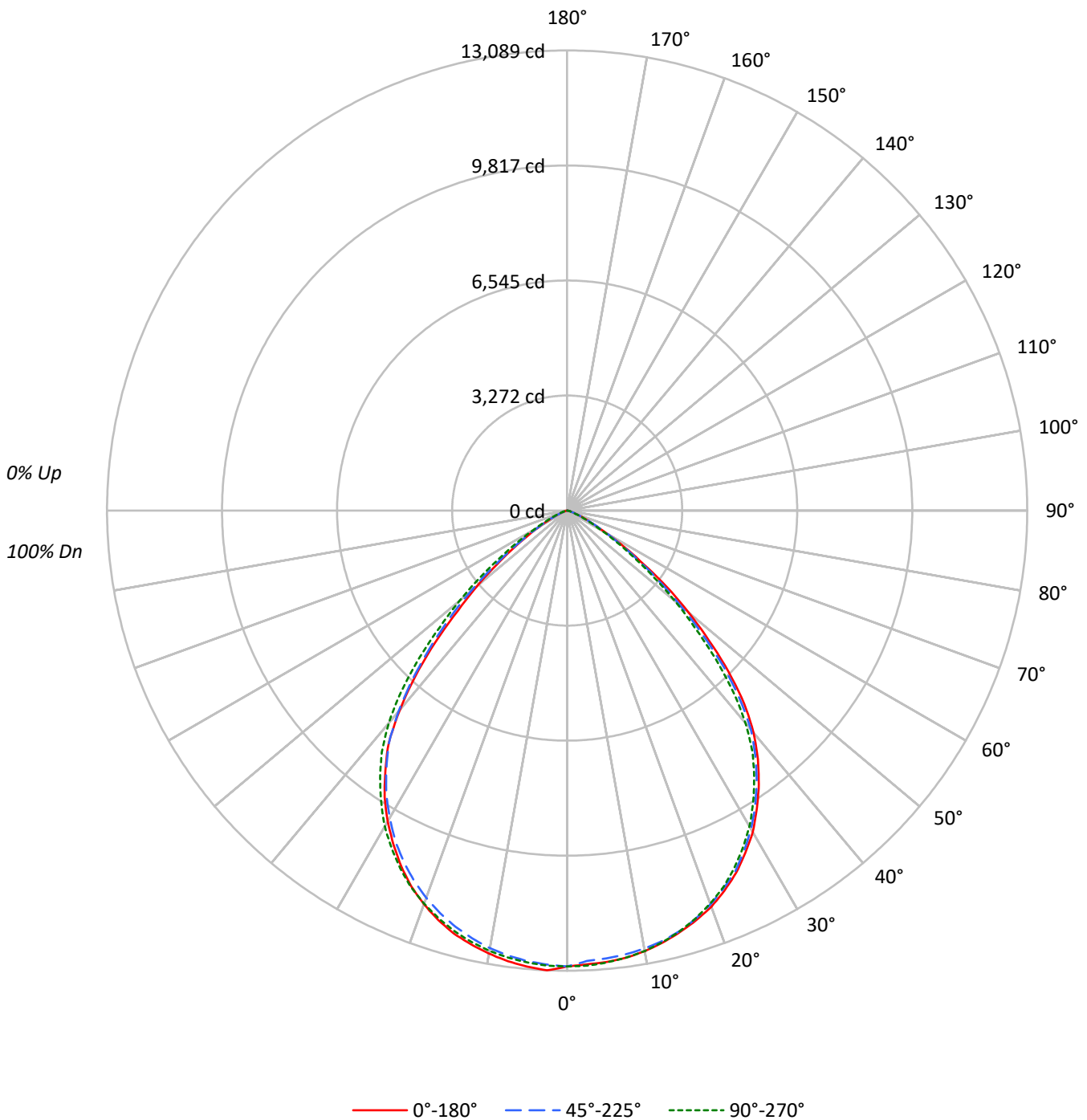
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	399833	399833	399833
5°	399026	399438	402998
10°	398467	398217	400662
15°	396169	395450	397602
20°	393518	390394	391001
25°	386871	382237	379944
30°	376007	369370	363530
35°	357804	349195	339490
40°	332264	317998	298362
45°	283215	260669	231438
50°	215652	192121	160282
55°	142161	123893	99797
60°	79829	70208	55123
65°	41867	37431	26625
70°	20024	17644	11090
75°	11342	12284	7720
80°	8684	8453	4457
85°	5130	4210	1875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1224.5	5.3
10°-20°	3487.7	15.2
20°-30°	5152.5	22.5
30°-40°	5741.9	25.1
40°-50°	4534.6	19.8
50°-60°	2094.0	9.1
60°-70°	538.0	2.3
70°-80°	103.6	0.5
80°-90°	16.2	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°	9864.7	43.1
0°-40°	15606.6	68.2
0°-60°	22235.2	97.1
0°-90°	22893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22893.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12966	12966	12966	12966	12966	
5°	12891	12788	12904	12864	13019	###
15°	12410	12381	12387	12258	12455	3502
25°	11370	11318	11234	11010	11167	5225
35°	9505	9399	9276	8967	9018	5919
45°	6494	6305	5977	5500	5307	4957
55°	2644	2492	2304	1973	1856	2450
65°	574	582	513	393	365	630
75°	95	100	103	78	65	115
85°	14	14	12	7	5	20
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°	12966.3	12966.3	12966.3	12966.3	12966.3	12966.3	12966.3	12966.3	12966.3
2.5°	12917.4	12978.2	12823.5	12949.1	12954.4	12865.8	12926.6	12999.4	13089.3
5°	12890.9	12953.1	12787.8	12904.2	12904.2	12807.7	12864.5	12928.0	13019.2
7.5°	12828.8	12896.2	12733.6	12842.0	12824.8	12719.1	12769.3	12831.5	12929.3
10°	12725.7	12809.0	12650.3	12753.4	12717.7	12596.1	12639.7	12704.5	12795.8
12.5°	12584.2	12683.4	12535.3	12625.2	12568.3	12429.5	12465.2	12548.5	12638.4
15°	12409.7	12511.5	12380.6	12458.6	12387.2	12232.5	12257.6	12342.3	12454.6
17.5°	12215.3	12314.5	12167.7	12252.4	12157.2	11997.2	12006.4	12104.3	12206.1
20°	11991.9	12073.9	11923.1	12003.8	11896.7	11720.8	11722.2	11809.4	11915.2
22.5°	11698.4	11784.3	11628.3	11695.7	11597.9	11410.1	11387.7	11472.3	11574.1
25°	11370.5	11460.4	11317.6	11341.4	11234.3	11039.9	11009.5	11071.7	11166.9
27.5°	10977.8	11066.4	10905.1	10935.5	10817.8	10631.4	10590.4	10623.5	10698.8
30°	10560.0	10615.5	10462.2	10487.3	10373.6	10152.8	10090.6	10135.6	10209.6
32.5°	10045.7	10085.3	9954.5	9967.7	9844.7	9654.3	9572.4	9585.6	9660.9
35°	9504.9	9526.1	9399.2	9401.8	9276.2	9083.2	8966.8	8960.2	9018.4
37.5°	8908.6	8923.2	8794.9	8788.3	8658.8	8449.9	8328.2	8307.1	8342.8
40°	8254.2	8274.0	8140.5	8098.2	7899.8	7661.9	7463.5	7426.5	7412.0
42.5°	7460.9	7406.7	7266.5	7195.1	6995.5	6690.1	6506.3	6450.8	6403.2
45°	6494.4	6450.8	6305.3	6144.0	5977.4	5747.4	5500.1	5348.1	5307.1
47.5°	5480.3	5428.7	5219.8	5078.4	4914.4	4808.7	4542.9	4308.9	4207.1
50°	4495.3	4438.5	4205.8	4101.3	4004.8	3847.5	3589.6	3379.4	3341.1
52.5°	3584.3	3498.4	3298.8	3190.3	3104.4	2929.9	2697.2	2575.5	2510.8
55°	2644.3	2631.1	2492.3	2414.2	2304.5	2165.7	1972.6	1881.4	1856.3
57.5°	1926.4	1877.5	1824.6	1758.5	1663.3	1488.7	1369.7	1301.0	1295.7
60°	1294.4	1310.2	1310.2	1237.5	1138.4	1024.7	929.5	892.5	893.8
62.5°	868.7	879.2	876.6	844.9	768.2	675.6	613.5	587.0	588.4
65°	573.8	571.2	581.7	559.3	513.0	448.2	392.7	378.1	364.9
67.5°	364.9	368.9	364.9	353.0	325.2	279.0	242.0	219.5	212.9
70°	222.1	216.8	218.2	215.5	195.7	173.2	146.8	128.2	123.0
72.5°	133.5	137.5	138.8	142.8	140.1	124.3	105.8	92.6	89.9
75°	95.2	96.5	100.5	104.4	103.1	92.6	78.0	68.8	64.8
77.5°	71.4	71.4	74.0	79.3	75.4	66.1	55.5	47.6	45.0
80°	48.9	50.2	51.6	51.6	47.6	42.3	33.1	27.8	25.1
82.5°	29.1	30.4	29.1	29.1	26.4	21.2	15.9	14.5	13.2
85°	14.5	14.5	14.5	14.5	11.9	9.3	6.6	5.3	5.3
87.5°	6.6	6.6	6.6	5.3	4.0	2.6	2.6	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)