

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: P248152

Luminaire Tested: **LD8B200D010 ER8B200940 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248152
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: LD8B200D010 ER8B200940 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21419.0 lumens
Efficiency: N/A
Efficacy: 95.9 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

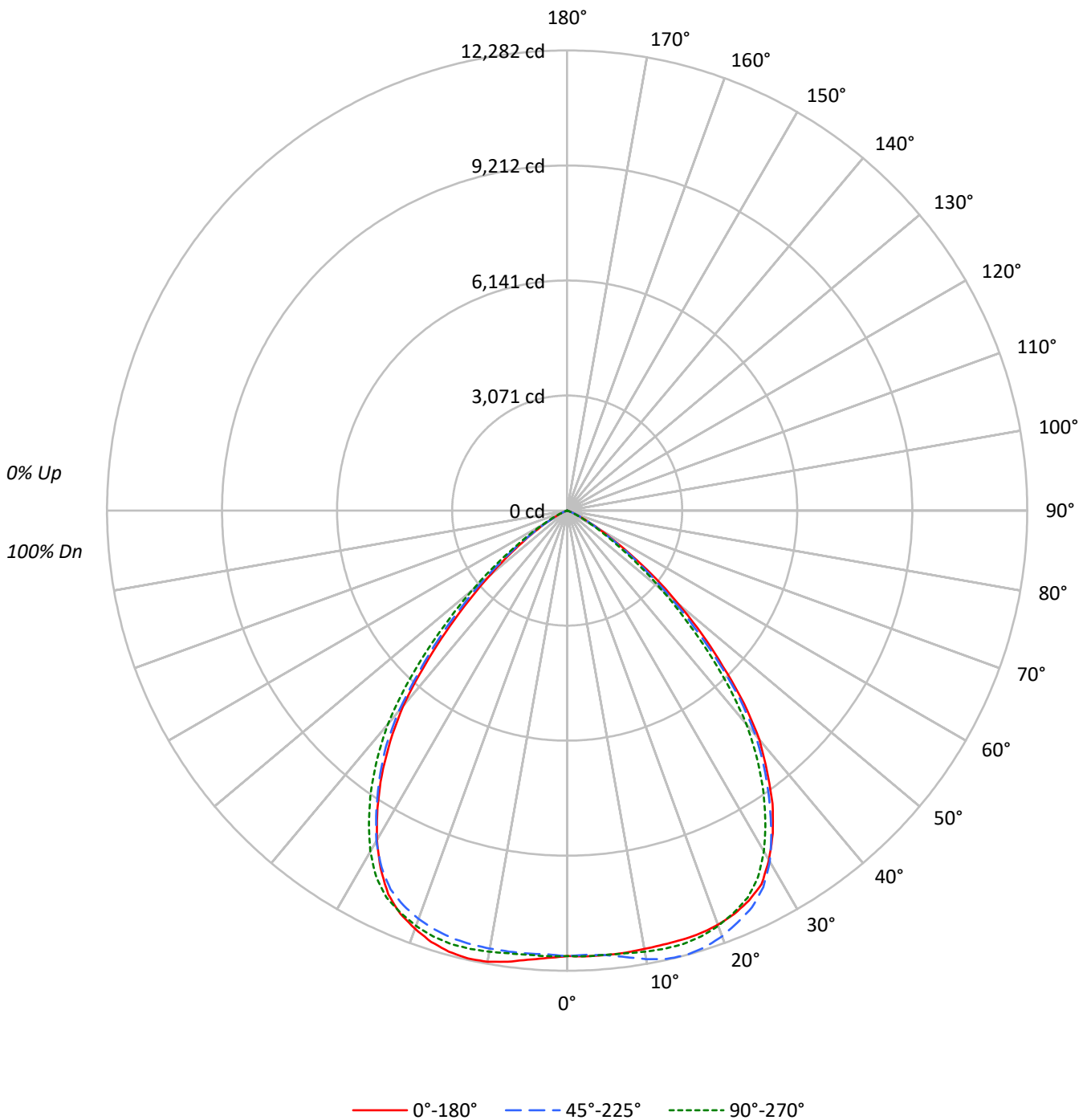
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	366675	366675	366675
5°	368626	368369	372443
10°	372034	374263	382836
15°	378550	382336	389069
20°	386085	387096	389741
25°	390787	387844	384455
30°	383431	374063	361486
35°	359728	343707	324922
40°	321351	299594	274302
45°	256282	230692	199939
50°	185655	158478	129080
55°	115152	93674	74046
60°	59212	46563	37207
65°	25253	18942	14527
70°	8015	3958	2561
75°	2121	1275	1275
80°	1687	1048	835
85°	1274	425	425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1140.1	5.3
10°-20°	3393.5	15.8
20°-30°	5216.1	24.4
30°-40°	5638.5	26.3
40°-50°	4057.4	18.9
50°-60°	1637.2	7.6
60°-70°	314.8	1.5
70°-80°	18.7	0.1
80°-90°	2.7	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°	9749.7	45.5
0°-40°	15388.2	71.8
0°-60°	21082.8	98.4
0°-90°	21419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21419.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11891	11891	11891	11891	11891	
5°	11909	11912	11900	11866	12032	###
15°	11858	12282	11976	11819	12187	3356
25°	11486	11682	11399	11154	11300	5269
35°	9556	9404	9130	8736	8631	5918
45°	5877	5702	5290	4856	4585	4539
55°	2142	1981	1742	1505	1377	1996
65°	346	353	260	203	199	405
75°	18	14	11	11	11	30
85°	4	2	1	1	1	4
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°	11891.0	11891.0	11891.0	11891.0	11891.0	11891.0	11891.0	11891.0	11891.0
2.5°	11908.8	11892.2	11868.5	11867.3	11905.2	11883.9	11857.8	11885.1	11952.7
5°	11908.8	11911.2	11912.4	11901.7	11900.5	11864.9	11866.1	11939.6	12032.1
7.5°	11900.5	11946.7	12019.0	12002.4	11919.5	11841.2	11873.2	12021.4	12144.7
10°	11881.5	11989.4	12155.3	12130.5	11952.7	11819.9	11870.9	12077.1	12226.5
12.5°	11864.9	12013.1	12258.5	12228.8	11979.9	11805.7	11856.6	12084.2	12245.4
15°	11857.8	12017.8	12282.2	12245.4	11976.4	11777.2	11818.7	12032.1	12187.3
17.5°	11831.8	11981.1	12222.9	12177.9	11914.7	11710.9	11728.6	11923.0	12070.0
20°	11765.4	11893.4	12091.3	12029.7	11796.2	11591.1	11597.1	11744.0	11876.8
22.5°	11652.8	11753.5	11896.9	11837.7	11619.6	11433.5	11408.6	11531.9	11643.3
25°	11485.6	11567.4	11682.4	11618.4	11399.1	11209.5	11153.8	11232.0	11299.5
27.5°	11240.3	11268.7	11333.9	11235.5	11032.9	10846.8	10730.6	10742.5	10778.0
30°	10768.5	10814.8	10820.7	10708.1	10505.4	10289.7	10183.0	10123.7	10152.2
32.5°	10213.8	10200.8	10141.5	10005.2	9846.4	9674.5	9473.0	9405.4	9420.8
35°	9556.0	9525.1	9404.2	9273.9	9130.4	8919.4	8735.7	8636.2	8631.4
37.5°	8754.7	8713.2	8633.8	8453.6	8322.1	8144.3	7943.9	7833.7	7750.7
40°	7983.1	7917.9	7824.2	7608.5	7442.6	7194.8	6989.8	6836.9	6814.3
42.5°	6987.4	6955.4	6821.5	6604.5	6397.1	6104.3	5866.1	5738.1	5671.7
45°	5876.8	5876.8	5702.5	5511.7	5290.0	5071.9	4856.2	4665.4	4584.8
47.5°	4882.3	4759.0	4594.3	4390.4	4228.0	4073.9	3845.1	3610.5	3555.9
50°	3870.0	3791.8	3597.4	3403.0	3303.5	3156.5	2976.3	2748.7	2690.7
52.5°	2990.5	2867.3	2698.9	2554.3	2460.7	2345.7	2150.2	1994.9	1965.2
55°	2141.9	2079.0	1980.7	1862.1	1742.4	1621.5	1505.3	1416.4	1377.3
57.5°	1467.4	1446.1	1364.3	1294.4	1178.2	1071.5	964.8	936.4	938.8
60°	960.1	958.9	918.6	855.8	755.0	657.8	608.1	593.8	603.3
62.5°	580.8	591.5	580.8	544.1	467.0	392.3	356.8	363.9	358.0
65°	346.1	356.8	353.2	305.8	259.6	227.6	202.7	193.2	199.1
67.5°	201.5	195.6	180.2	157.6	129.2	106.7	90.1	81.8	83.0
70°	88.9	84.2	75.9	58.1	43.9	35.6	29.6	27.3	28.4
72.5°	33.2	32.0	27.3	22.5	19.0	15.4	14.2	14.2	14.2
75°	17.8	16.6	14.2	11.9	10.7	10.7	10.7	10.7	10.7
77.5°	13.0	11.9	10.7	9.5	8.3	7.1	7.1	7.1	7.1
80°	9.5	8.3	7.1	5.9	5.9	4.7	4.7	4.7	4.7
82.5°	5.9	5.9	4.7	3.6	3.6	2.4	2.4	2.4	2.4
85°	3.6	3.6	2.4	2.4	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)