

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: P248104

Luminaire Tested: **LD8B200D010 ER8B200850 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200850 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22497.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

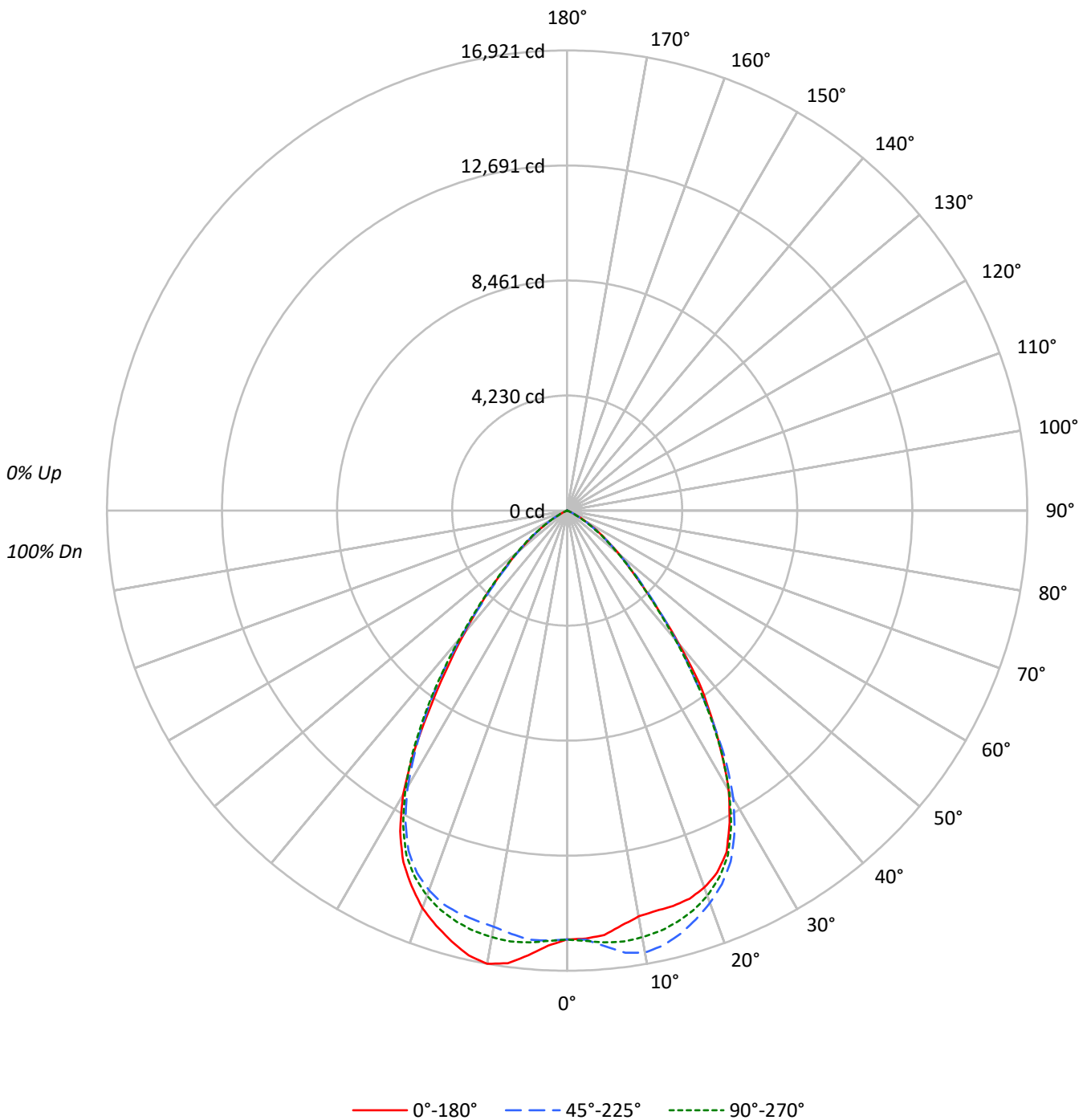
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84					84			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76					76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69					69			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63					63			
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58					58			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49					49			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45					45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	486332	486332	486332
5°	484893	493365	508093
10°	474462	498772	529840
15°	480423	499915	523629
20°	484016	494543	510554
25°	471618	476021	485150
30°	423047	424151	429239
35°	347546	342419	327602
40°	256768	248463	235767
45°	170298	169007	166478
50°	120474	115235	112520
55°	80513	73266	69282
60°	45311	39322	35832
65°	17504	12586	10427
70°	5103	2921	2434
75°	1442	798	965
80°	0	0	0
85°	955	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1525.6	6.8
10°-20°	4424.3	19.7
20°-30°	6353.6	28.2
30°-40°	5616.2	25.0
40°-50°	3074.2	13.7
50°-60°	1265.6	5.6
60°-70°	226.8	1.0
70°-80°	9.8	0.0
80°-90°	0.8	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°	12303.5	54.7
0°-40°	17919.7	79.7
0°-60°	22259.6	98.9
0°-90°	22497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22497.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15771	15771	15771	15771	15771	
5°	15665	16086	15939	15842	16414	###
15°	15049	16112	15660	15336	16402	4250
25°	13861	14236	13991	13806	14259	6270
35°	9232	9150	9096	8972	8703	5727
45°	3905	4020	3876	3710	3818	3143
55°	1498	1428	1363	1318	1289	1357
65°	240	187	172	139	143	279
75°	12	5	7	8	8	18
85°	3	3	0	8	0	1
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°	15771.4	15771.4	15771.4	15771.4	15771.4	15771.4	15771.4	15771.4	15771.4
2.5°	15751.2	15779.5	15793.0	15864.4	15840.2	15806.5	15825.3	15883.3	16008.7
5°	15664.9	15815.9	16085.5	16177.2	15938.6	15731.0	15841.5	16158.3	16414.4
7.5°	15380.5	15760.6	16398.2	16537.1	15984.4	15507.2	15700.0	16383.4	16787.8
10°	15152.7	15624.5	16500.7	16706.9	15929.1	15311.8	15536.9	16372.6	16921.3
12.5°	15075.9	15511.3	16371.3	16604.5	15836.1	15243.0	15441.2	16214.9	16751.4
15°	15048.9	15398.0	16112.5	16299.8	15659.5	15175.6	15336.0	15957.5	16402.3
17.5°	14965.3	15225.5	15758.0	15910.3	15416.9	15042.2	15166.2	15648.8	16006.0
20°	14749.7	14970.7	15353.6	15460.0	15070.5	14776.6	14856.1	15218.8	15558.4
22.5°	14412.7	14555.5	14865.6	14916.8	14608.1	14373.6	14423.4	14694.4	14942.4
25°	13861.3	13961.1	14236.1	14249.6	13990.7	13785.8	13806.1	14032.5	14259.0
27.5°	12933.9	13122.6	13324.8	13382.8	13057.9	12818.0	12880.0	13031.0	13296.5
30°	11881.1	12020.0	12218.1	12173.7	11912.1	11696.5	11722.1	11856.9	12055.0
32.5°	10568.2	10715.1	10816.2	10724.6	10592.5	10399.7	10341.7	10399.7	10453.6
35°	9232.4	9282.2	9150.1	9097.6	9096.2	9036.9	8972.2	8797.0	8702.6
37.5°	7957.2	7800.8	7563.5	7462.4	7578.4	7722.6	7528.5	7299.3	7180.7
40°	6378.7	6382.7	6234.4	6129.3	6172.4	6123.9	6039.0	5892.0	5857.0
42.5°	4986.2	5001.0	5048.2	4988.9	4885.1	4727.4	4680.2	4686.9	4790.7
45°	3905.1	3934.8	4019.7	4011.6	3875.5	3775.7	3709.7	3802.7	3817.5
47.5°	3105.8	3147.5	3182.6	3179.9	3074.8	2975.0	2945.3	2962.9	2999.3
50°	2511.3	2507.3	2480.3	2445.2	2402.1	2381.9	2348.2	2345.5	2345.5
52.5°	1934.4	1941.1	1887.2	1889.9	1869.7	1813.0	1798.2	1768.6	1768.6
55°	1497.6	1470.7	1427.5	1385.7	1362.8	1323.7	1318.3	1287.3	1288.7
57.5°	1063.6	1039.3	988.1	962.5	944.9	934.2	911.2	887.0	876.2
60°	734.7	714.4	686.1	660.5	637.6	632.2	610.6	586.4	581.0
62.5°	443.5	438.1	388.2	378.8	361.3	353.2	338.3	322.2	323.5
65°	239.9	204.9	187.4	176.6	172.5	151.0	138.8	136.1	142.9
67.5°	64.7	64.7	52.6	49.9	49.9	36.4	41.8	40.4	52.6
70°	56.6	40.4	35.0	28.3	32.4	18.9	35.0	28.3	27.0
72.5°	29.7	16.2	13.5	13.5	14.8	9.4	21.6	12.1	9.4
75°	12.1	8.1	5.4	2.7	6.7	6.7	8.1	2.7	8.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	4.0	2.7	0.0	0.0	0.0	8.1	0.0	0.0
87.5°	0.0	2.7	1.3	0.0	0.0	0.0	2.7	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)