

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: P248113

Luminaire Tested: **LD8B200D010 ER8B200935 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248113
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 ER8B200935 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18941.0 lumens
Efficiency: N/A
Efficacy: 84.8 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

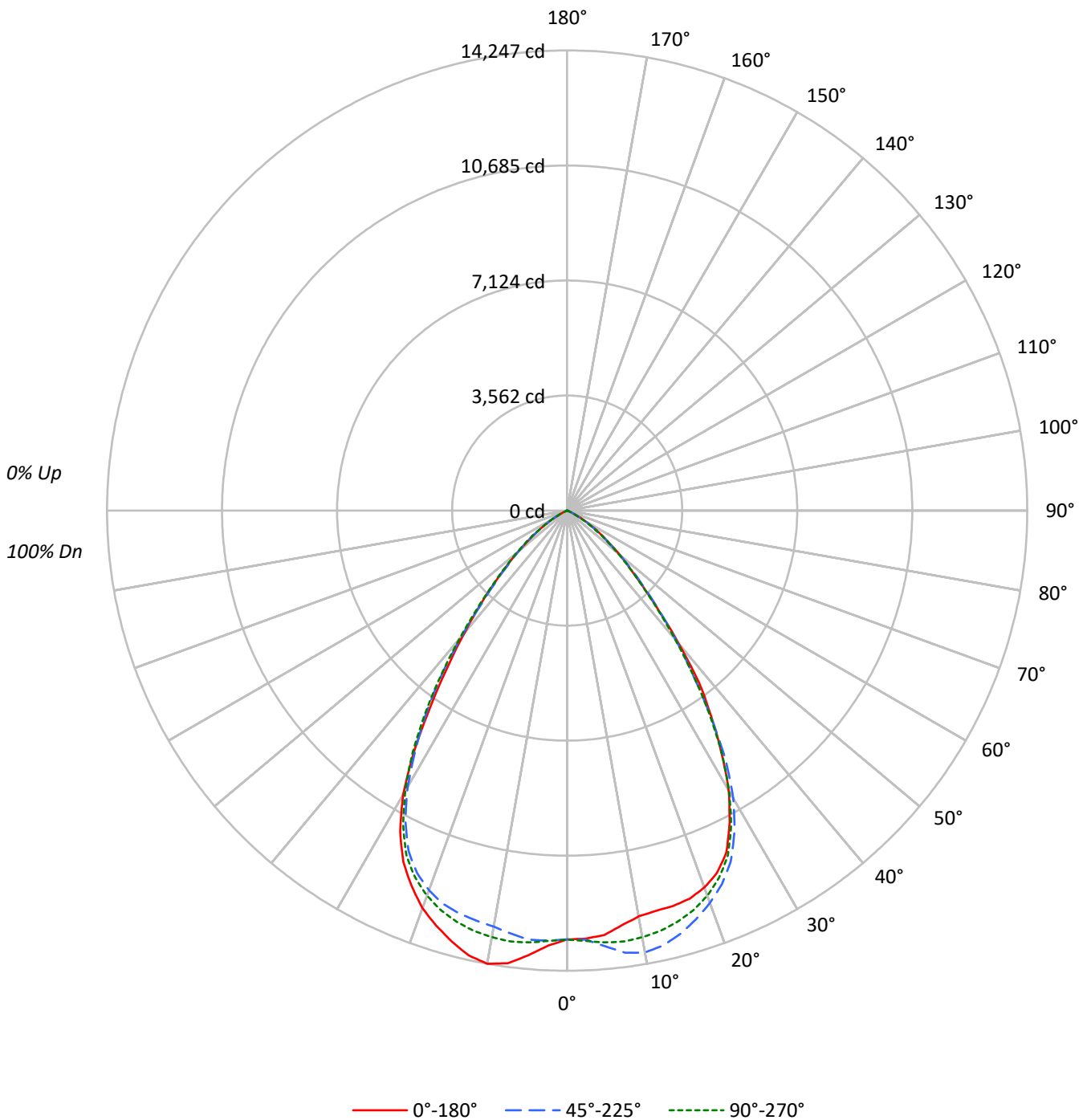
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	409460	409460	409460
5°	408251	415379	427783
10°	399466	419935	446090
15°	404485	420897	440862
20°	407507	416374	429854
25°	397072	400780	408463
30°	356177	357107	361390
35°	292608	288294	275819
40°	216180	209192	198500
45°	143382	142292	140164
50°	101429	97020	94737
55°	67788	61686	58331
60°	38145	33106	30164
65°	14739	10602	8778
70°	4301	2452	2047
75°	1215	679	810
80°	0	0	0
85°	814	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1284.5	6.8
10°-20°	3725.0	19.7
20°-30°	5349.3	28.2
30°-40°	4728.5	25.0
40°-50°	2588.3	13.7
50°-60°	1065.6	5.6
60°-70°	190.9	1.0
70°-80°	8.3	0.0
80°-90°	0.7	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°	10358.7	54.7
0°-40°	15087.2	79.7
0°-60°	18741.1	98.9
0°-90°	18941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18941.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13278	13278	13278	13278	13278	
5°	13189	13543	13419	13338	13820	###
15°	12670	13566	13184	12912	13810	3578
25°	11670	11986	11779	11624	12005	5279
35°	7773	7704	7658	7554	7327	4822
45°	3288	3384	3263	3123	3214	2646
55°	1261	1202	1147	1110	1085	1143
65°	202	158	145	117	120	235
75°	10	4	6	7	7	15
85°	2	2	0	7	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°	13278.5	13278.5	13278.5	13278.5	13278.5	13278.5	13278.5	13278.5	13278.5
2.5°	13261.5	13285.3	13296.7	13356.8	13336.4	13308.0	13323.9	13372.7	13478.3
5°	13188.9	13316.0	13542.9	13620.1	13419.2	13244.5	13337.5	13604.2	13819.9
7.5°	12949.4	13269.4	13806.2	13923.1	13457.8	13056.1	13218.4	13793.8	14134.2
10°	12757.6	13154.8	13892.5	14066.1	13411.3	12891.5	13081.0	13784.7	14246.6
12.5°	12692.9	13059.5	13783.5	13979.9	13333.0	12833.6	13000.5	13651.9	14103.6
15°	12670.2	12964.1	13565.6	13723.4	13184.3	12776.9	12911.9	13435.1	13809.7
17.5°	12599.8	12818.9	13267.2	13395.4	12980.0	12664.5	12768.9	13175.2	13476.0
20°	12418.2	12604.4	12926.7	13016.3	12688.4	12440.9	12507.9	12813.2	13099.2
22.5°	12134.5	12254.8	12515.8	12559.0	12299.1	12101.6	12143.6	12371.7	12580.5
25°	11670.3	11754.3	11985.8	11997.2	11779.3	11606.8	11623.8	11814.5	12005.1
27.5°	10889.5	11048.4	11218.6	11267.4	10993.9	10791.9	10844.1	10971.2	11194.8
30°	10003.1	10120.0	10286.9	10249.4	10029.2	9847.7	9869.2	9982.7	10149.5
32.5°	8897.7	9021.4	9106.6	9029.4	8918.2	8755.9	8707.1	8755.9	8801.3
35°	7773.0	7815.0	7703.8	7659.5	7658.4	7608.5	7554.0	7406.5	7327.0
37.5°	6699.4	6567.8	6368.0	6282.9	6380.5	6501.9	6338.5	6145.6	6045.7
40°	5370.4	5373.8	5249.0	5160.5	5196.8	5155.9	5084.4	4960.7	4931.2
42.5°	4198.1	4210.5	4250.3	4200.3	4112.9	3980.1	3940.4	3946.1	4033.5
45°	3287.9	3312.8	3384.3	3377.5	3262.9	3178.9	3123.3	3201.6	3214.1
47.5°	2614.8	2650.0	2679.5	2677.3	2588.7	2504.8	2479.8	2494.5	2525.2
50°	2114.3	2110.9	2088.2	2058.7	2022.4	2005.4	1977.0	1974.8	1974.8
52.5°	1628.6	1634.3	1588.9	1591.2	1574.1	1526.5	1514.0	1489.0	1489.0
55°	1260.9	1238.2	1201.9	1166.7	1147.4	1114.5	1109.9	1083.8	1085.0
57.5°	895.4	875.0	831.9	810.3	795.6	786.5	767.2	746.8	737.7
60°	618.5	601.5	577.7	556.1	536.8	532.3	514.1	493.7	489.1
62.5°	373.4	368.8	326.9	318.9	304.2	297.3	284.9	271.2	272.4
65°	202.0	172.5	157.8	148.7	145.3	127.1	116.9	114.6	120.3
67.5°	54.5	54.5	44.3	42.0	42.0	30.6	35.2	34.0	44.3
70°	47.7	34.0	29.5	23.8	27.2	15.9	29.5	23.8	22.7
72.5°	25.0	13.6	11.3	11.3	12.5	7.9	18.2	10.2	7.9
75°	10.2	6.8	4.5	2.3	5.7	5.7	6.8	2.3	6.8
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°	2.3	3.4	2.3	0.0	0.0	0.0	6.8	0.0	0.0
87.5°	0.0	2.3	1.1	0.0	0.0	0.0	2.3	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)