

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: P247789

Luminaire Tested: **LD8B200D010 ER8B200935 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200935 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19440.0 lumens
Efficiency: N/A
Efficacy: 87.1 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

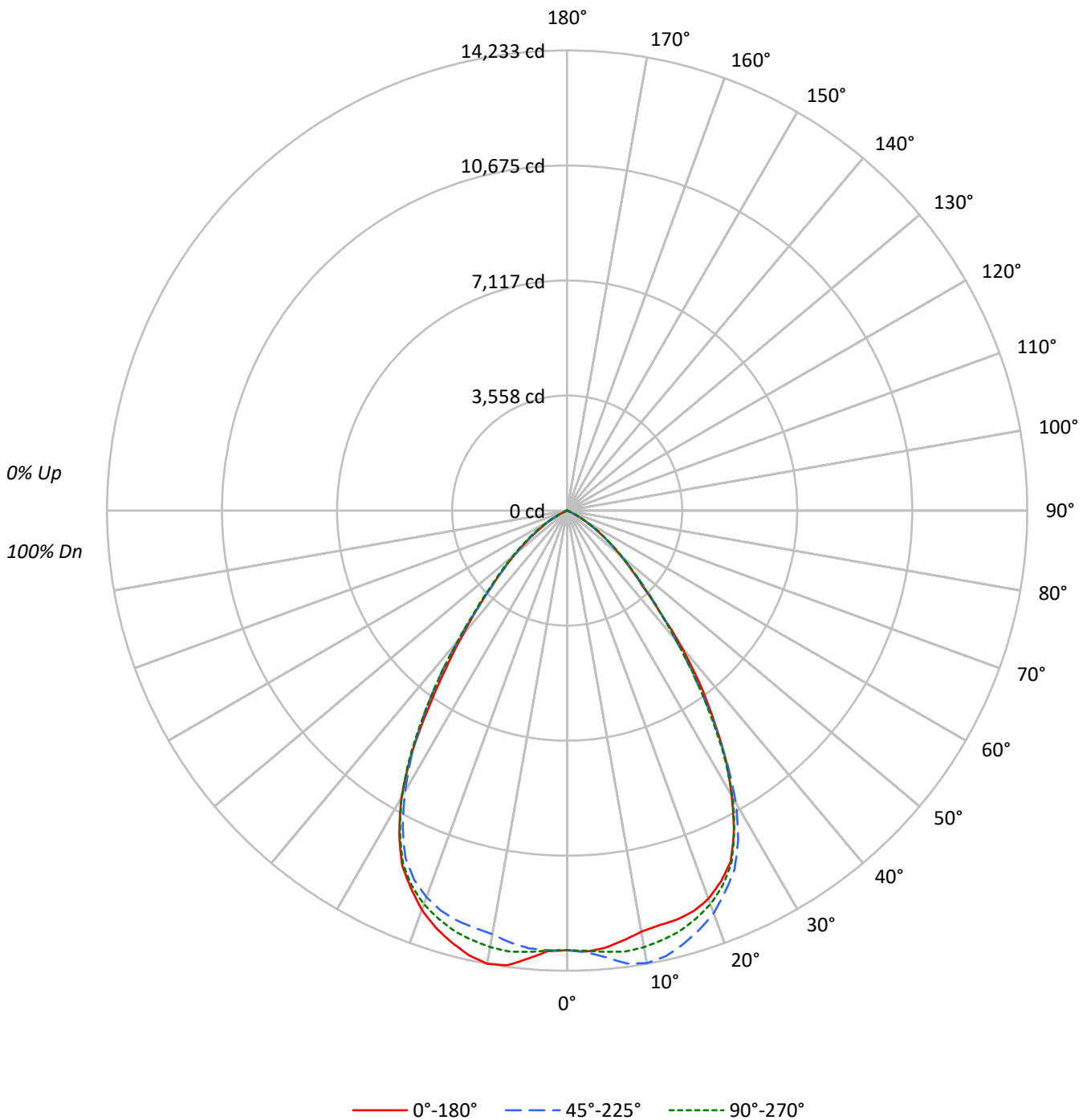
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	100	98	96	96	95	94	92					92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83					83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76					76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63					63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53					53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48					48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45					45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	419257	419257	419257
5°	420121	424090	430624
10°	414070	429313	445661
15°	418250	429772	441258
20°	419311	425159	431154
25°	407418	409157	411321
30°	362359	364460	364784
35°	297607	291197	282399
40°	220612	211840	202429
45°	143430	146941	142192
50°	103554	105348	100834
55°	69008	71019	64492
60°	38706	41783	36609
65°	12171	15155	12754
70°	3174	3688	2966
75°	2025	1489	2431
80°	408	1208	0
85°	4423	1203	1592



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1310.2	6.7
10°-20°	3794.7	19.5
20°-30°	5443.0	28.0
30°-40°	4803.1	24.7
40°-50°	2659.4	13.7
50°-60°	1171.9	6.0
60°-70°	236.8	1.2
70°-80°	17.8	0.1
80°-90°	3.2	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°	10547.9	54.3
0°-40°	15350.9	79.0
0°-60°	19182.2	98.7
0°-90°	19440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19440.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13596	13596	13596	13596	13596	
5°	13572	13871	13701	13589	13912	###
15°	13101	13881	13462	13133	13822	3696
25°	11974	12243	12026	11845	12089	5409
35°	7906	7792	7736	7741	7502	4904
45°	3289	3429	3370	3244	3261	2679
55°	1284	1278	1321	1253	1200	1177
65°	167	179	208	188	175	230
75°	17	17	12	14	20	17
85°	12	7	3	10	4	6
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°	13596.2	13596.2	13596.2	13596.2	13596.2	13596.2	13596.2	13596.2	13596.2
2.5°	13653.0	13596.2	13671.1	13624.6	13628.0	13557.6	13613.2	13666.6	13637.1
5°	13572.4	13624.6	13870.9	13864.1	13700.6	13488.4	13589.4	13832.3	13911.7
7.5°	13405.6	13593.9	14128.5	14177.3	13757.4	13310.2	13474.8	13981.0	14183.0
10°	13224.0	13495.2	14213.6	14308.9	13710.8	13121.8	13307.9	13945.8	14232.9
12.5°	13136.6	13398.7	14114.9	14206.8	13604.2	13031.0	13219.4	13811.8	14078.6
15°	13101.4	13298.9	13881.1	13965.1	13462.3	12980.0	13133.2	13617.8	13822.1
17.5°	12994.7	13130.9	13591.7	13645.0	13237.6	12855.1	12975.4	13346.5	13524.7
20°	12777.9	12868.7	13255.7	13284.1	12956.1	12631.5	12724.6	13017.4	13138.8
22.5°	12420.4	12480.6	12766.6	12776.8	12562.3	12280.9	12358.0	12587.3	12632.7
25°	11974.4	11980.1	12243.4	12194.6	12025.5	11764.5	11845.1	12041.4	12089.1
27.5°	11172.0	11191.3	11458.0	11393.4	11193.6	10966.6	11016.6	11195.9	11243.5
30°	10176.7	10284.6	10438.9	10407.1	10235.7	10007.6	10017.8	10193.8	10244.8
32.5°	9130.3	9098.6	9178.0	9154.2	9065.7	8885.2	8945.4	8990.8	9003.2
35°	7905.8	7879.7	7792.3	7682.2	7735.5	7805.9	7741.2	7641.3	7501.8
37.5°	6728.9	6582.5	6412.2	6297.6	6487.1	6560.9	6497.4	6280.6	6168.2
40°	5480.5	5326.1	5234.2	5205.8	5262.6	5317.1	5245.6	5140.0	5028.8
42.5°	4226.4	4225.3	4248.0	4242.3	4203.7	4125.4	4068.7	4114.0	4095.9
45°	3289.0	3340.0	3428.6	3443.3	3369.5	3254.9	3243.6	3286.7	3260.6
47.5°	2677.3	2695.4	2727.2	2772.6	2730.6	2672.7	2643.2	2656.8	2633.0
50°	2158.6	2163.1	2177.9	2211.9	2196.0	2156.3	2128.0	2110.9	2101.9
52.5°	1695.6	1685.3	1696.7	1708.0	1729.6	1703.5	1679.7	1643.3	1615.0
55°	1283.6	1275.6	1277.9	1287.0	1321.0	1291.5	1252.9	1229.1	1199.6
57.5°	931.8	905.7	911.3	942.0	973.8	961.3	927.2	888.6	852.3
60°	627.6	621.9	620.8	653.7	677.5	673.0	634.4	606.0	593.6
62.5°	371.1	367.7	376.8	391.5	419.9	399.5	373.4	358.6	354.1
65°	166.8	174.8	179.3	190.7	207.7	203.1	188.4	172.5	174.8
67.5°	72.6	55.6	62.4	70.4	65.8	69.2	61.3	64.7	62.4
70°	35.2	37.5	35.2	44.3	40.9	43.1	35.2	42.0	32.9
72.5°	25.0	21.6	27.2	31.8	27.2	31.8	28.4	21.6	17.0
75°	17.0	10.2	17.0	10.2	12.5	18.2	13.6	18.2	20.4
77.5°	2.3	7.9	3.4	4.5	2.3	5.7	5.7	3.4	10.2
80°	2.3	3.4	2.3	4.5	6.8	1.1	4.5	10.2	0.0
82.5°	7.9	0.0	1.1	0.0	1.1	2.3	0.0	2.3	0.0
85°	12.5	3.4	6.8	15.9	3.4	6.8	10.2	4.5	4.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	0.0	3.4	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)