

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: P247921

Luminaire Tested: **LD8B200D010 ER8B200840 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200840 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21508.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

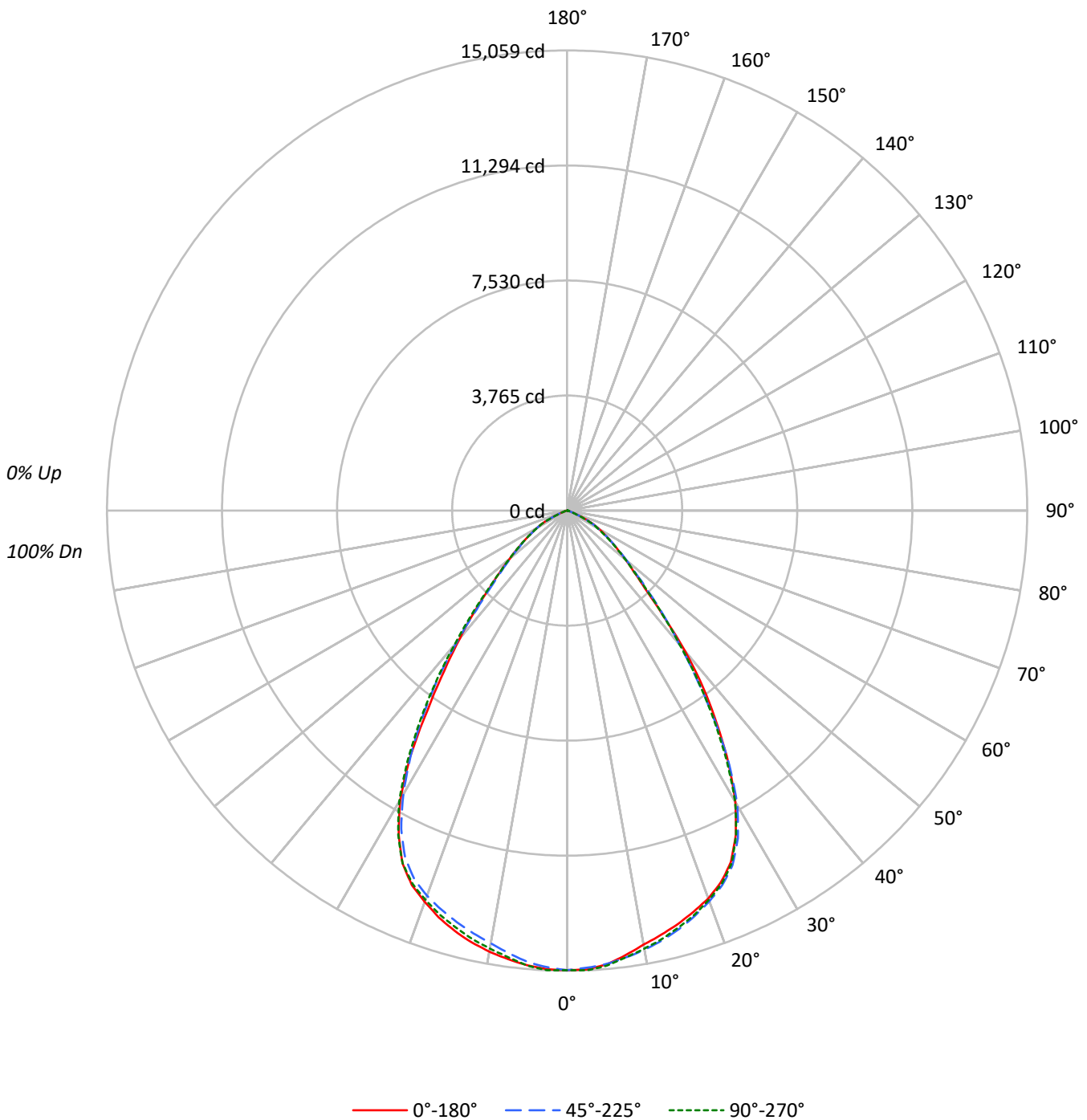
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74					74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61					61			
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55					55			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	463784	463784	463784
5°	461380	462690	462445
10°	451522	455703	458893
15°	447097	450685	454440
20°	443266	444871	447082
25°	431613	433277	433637
30°	391763	391385	388750
35°	322554	315338	299561
40°	241190	230333	219903
45°	156190	160281	156648
50°	119558	118920	118416
55°	93679	91975	91196
60°	74525	70449	71429
65°	48908	43217	43699
70°	17518	16093	16688
75°	6303	7720	6303
80°	3996	5629	4688
85°	920	2795	1875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1408.7	6.5
10°-20°	3971.6	18.5
20°-30°	5758.1	26.8
30°-40°	5175.7	24.1
40°-50°	2916.6	13.6
50°-60°	1554.0	7.2
60°-70°	621.1	2.9
70°-80°	82.7	0.4
80°-90°	19.5	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°	11138.4	51.8
0°-40°	16314.1	75.9
0°-60°	20784.7	96.6
0°-90°	21508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21508.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15040	15040	15040	15040	15040	
5°	14905	14892	14948	14830	14940	###
15°	14005	14168	14117	13943	14235	3952
25°	12686	12804	12734	12537	12745	5758
35°	8568	8446	8377	8260	7958	5316
45°	3582	3776	3675	3502	3592	2942
55°	1742	1748	1711	1671	1696	1588
65°	670	639	592	575	599	663
75°	53	67	65	64	53	78
85°	3	16	8	22	5	8
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°	15040.2	15040.2	15040.2	15040.2	15040.2	15040.2	15040.2	15040.2	15040.2
2.5°	15029.6	14997.9	14974.1	15019.0	15058.7	14950.3	14958.2	15005.8	15021.7
5°	14905.3	14876.2	14892.1	14929.1	14947.6	14811.5	14830.0	14910.6	14939.7
7.5°	14672.6	14695.1	14752.0	14799.6	14744.0	14584.1	14610.5	14749.3	14806.2
10°	14420.1	14473.0	14592.0	14647.5	14553.6	14348.7	14379.1	14565.5	14655.5
12.5°	14219.2	14277.3	14401.6	14443.9	14360.6	14139.8	14171.6	14364.6	14471.7
15°	14005.0	14057.9	14167.6	14202.0	14117.4	13913.8	13942.8	14127.9	14235.0
17.5°	13763.0	13809.3	13907.1	13938.9	13864.8	13649.3	13695.6	13867.5	13961.3
20°	13507.9	13540.9	13609.7	13628.2	13556.8	13394.2	13415.3	13563.4	13624.2
22.5°	13160.2	13202.5	13265.9	13285.8	13219.7	13041.2	13061.0	13206.4	13272.5
25°	12685.5	12747.7	12804.5	12829.6	12734.4	12497.8	12537.4	12661.7	12745.0
27.5°	11949.1	11999.4	12099.8	12102.5	11971.6	11725.7	11758.7	11918.7	11939.9
30°	11002.5	11048.8	11137.3	11117.5	10991.9	10699.7	10726.2	10882.2	10917.9
32.5°	9843.0	9860.2	9884.0	9877.4	9724.0	9586.5	9532.3	9550.8	9564.1
35°	8568.5	8598.9	8445.6	8362.3	8376.8	8388.7	8260.5	8070.1	7957.7
37.5°	7333.7	7188.2	6999.2	6934.4	7054.7	7094.4	6978.0	6693.8	6589.3
40°	5991.7	5862.2	5712.8	5724.7	5722.0	5749.8	5603.0	5498.6	5462.9
42.5°	4611.5	4612.8	4710.6	4643.2	4630.0	4437.0	4380.1	4438.3	4501.7
45°	3581.6	3700.6	3775.9	3756.1	3675.4	3502.2	3502.2	3604.0	3592.1
47.5°	2948.3	2990.6	3047.4	3043.5	2985.3	2858.4	2879.5	2949.6	2985.3
50°	2492.2	2510.7	2537.1	2514.6	2478.9	2399.6	2398.3	2447.2	2468.4
52.5°	2084.9	2095.5	2088.9	2077.0	2057.2	2014.9	2001.7	2042.6	2047.9
55°	1742.5	1762.4	1747.8	1714.8	1710.8	1672.5	1671.1	1704.2	1696.3
57.5°	1451.7	1431.8	1412.0	1384.2	1380.3	1368.4	1381.6	1386.9	1378.9
60°	1208.4	1209.7	1171.4	1144.9	1142.3	1125.1	1143.6	1158.2	1158.2
62.5°	973.1	967.8	944.0	904.3	910.9	904.3	912.2	914.9	903.0
65°	670.3	671.6	638.6	591.0	592.3	587.0	575.1	593.6	598.9
67.5°	357.0	354.3	329.2	312.0	305.4	308.0	321.3	325.2	310.7
70°	194.3	187.7	193.0	174.5	178.5	171.9	178.5	189.1	185.1
72.5°	99.2	105.8	95.2	87.3	97.8	96.5	112.4	103.1	92.5
75°	52.9	56.9	67.4	62.1	64.8	62.1	63.5	59.5	52.9
77.5°	38.3	42.3	48.9	47.6	46.3	43.6	48.9	54.2	43.6
80°	22.5	27.8	30.4	35.7	31.7	35.7	41.0	33.1	26.4
82.5°	14.5	22.5	22.5	23.8	34.4	22.5	37.0	33.1	26.4
85°	2.6	4.0	15.9	9.3	7.9	23.8	22.5	17.2	5.3
87.5°	0.0	9.3	21.2	10.6	17.2	15.9	22.5	23.8	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)