

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: P247974

Luminaire Tested: **LD8B175D010 ER8B175950 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175950 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18353.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

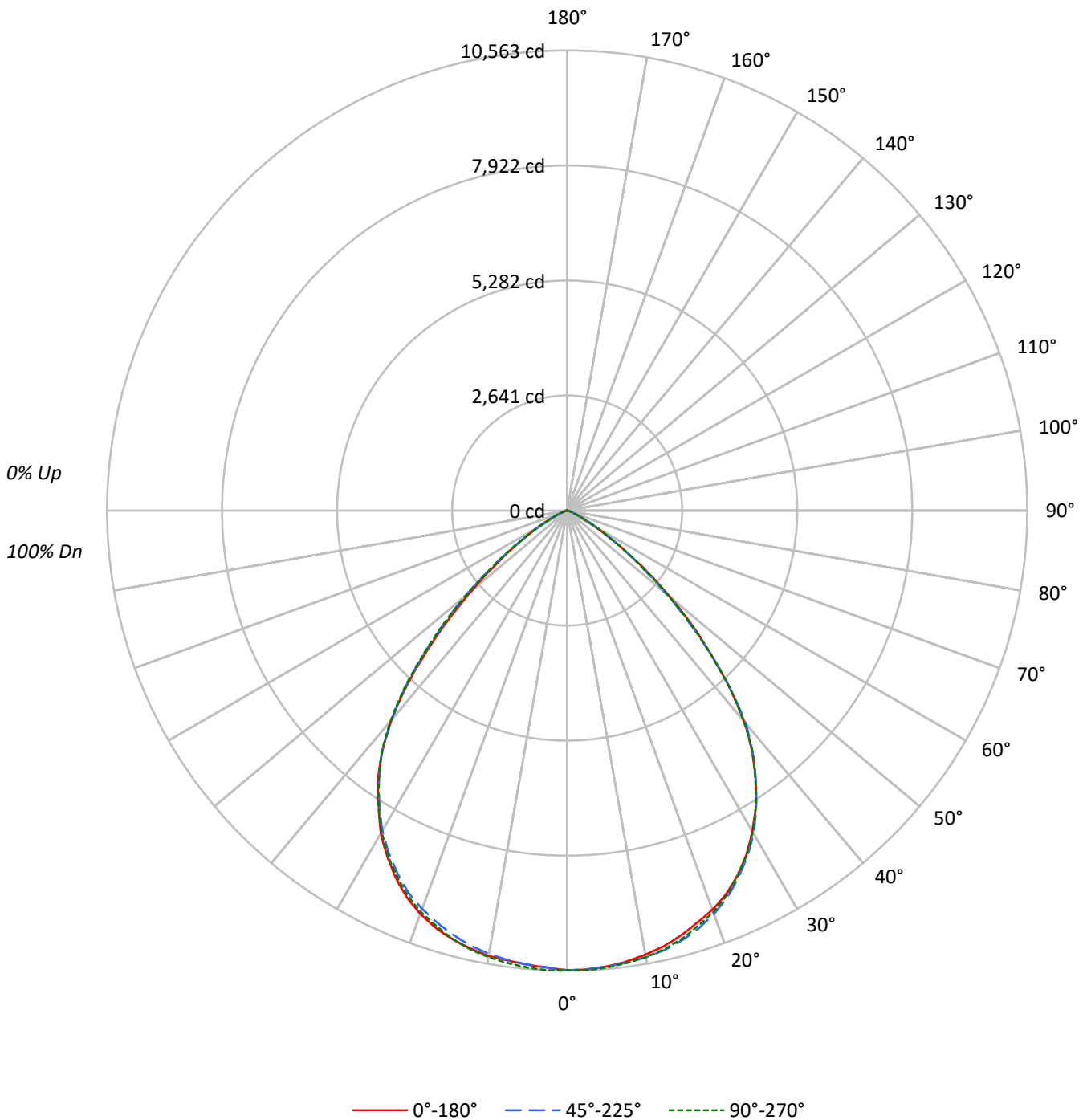
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	325416	325416	325416
5°	325176	325950	323984
10°	324048	325839	325122
15°	322306	324898	325131
20°	319959	321840	323274
25°	314529	314883	316656
30°	302618	303284	304655
35°	284112	283600	285245
40°	254731	254059	252255
45°	203454	203406	198278
50°	147041	145645	137255
55°	90115	89443	85357
60°	46298	48092	47389
65°	22561	23473	23852
70°	9665	9954	9485
75°	7566	7566	6577
80°	4067	3694	3321
85°	3326	2194	4776



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	999.1	5.4
10°-20°	2865.9	15.6
20°-30°	4257.7	23.2
30°-40°	4692.1	25.6
40°-50°	3573.8	19.5
50°-60°	1540.6	8.4
60°-70°	353.9	1.9
70°-80°	58.8	0.3
80°-90°	11.0	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°	8122.7	44.3
0°-40°	12814.9	69.8
0°-60°	17929.2	97.7
0°-90°	18353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18353.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10553	10553	10553	10553	10553	
5°	10505	10504	10530	10459	10467	998
15°	10096	10208	10177	10087	10184	2848
25°	9244	9296	9255	9201	9307	4243
35°	7547	7551	7534	7528	7577	4686
45°	4665	4656	4664	4639	4547	3599
55°	1676	1675	1664	1674	1588	1563
65°	309	339	322	320	327	346
75°	64	64	64	65	55	58
85°	9	6	6	19	14	9
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°	10553.0	10553.0	10553.0	10553.0	10553.0	10553.0	10553.0	10553.0	10553.0
2.5°	10541.6	10542.6	10535.3	10551.0	10563.4	10522.8	10498.9	10553.0	10501.0
5°	10505.1	10512.4	10504.1	10523.9	10530.1	10496.8	10459.3	10517.6	10466.6
7.5°	10442.7	10457.2	10469.7	10492.6	10476.0	10434.3	10409.4	10478.1	10415.6
10°	10349.0	10385.4	10412.5	10446.8	10406.2	10361.5	10331.3	10425.0	10383.3
12.5°	10243.8	10285.5	10331.3	10372.9	10311.5	10245.9	10230.3	10330.2	10292.7
15°	10096.0	10134.5	10208.4	10248.0	10177.2	10102.2	10086.6	10213.6	10184.5
17.5°	9922.1	9989.8	10052.2	10083.5	9993.9	9929.4	9921.1	10052.2	10040.8
20°	9750.3	9786.8	9851.3	9892.9	9807.6	9730.5	9727.4	9862.8	9851.3
22.5°	9532.7	9565.0	9607.7	9646.2	9566.0	9501.5	9505.6	9617.0	9615.0
25°	9244.3	9266.2	9296.4	9339.1	9254.7	9208.9	9200.6	9319.3	9306.8
27.5°	8908.0	8922.6	8957.0	8993.4	8920.5	8879.9	8865.3	8984.0	8942.4
30°	8498.9	8532.2	8556.1	8571.7	8517.6	8492.6	8482.2	8575.9	8556.1
32.5°	8064.7	8076.2	8077.2	8115.7	8058.5	8023.1	8023.1	8098.0	8053.2
35°	7547.3	7545.2	7551.4	7593.1	7533.7	7546.2	7527.5	7586.8	7577.4
37.5°	6979.8	6989.2	6991.3	7024.6	6991.3	6999.6	6992.3	7001.7	6971.5
40°	6328.1	6368.7	6382.2	6376.0	6311.4	6289.5	6270.8	6305.2	6266.6
42.5°	5519.1	5537.8	5539.9	5544.1	5526.4	5523.3	5500.4	5514.9	5454.6
45°	4665.4	4673.7	4656.0	4652.9	4664.3	4682.0	4639.3	4606.0	4546.7
47.5°	3885.5	3856.4	3776.2	3805.4	3817.9	3862.6	3816.8	3727.3	3678.4
50°	3065.1	3034.9	2973.5	2987.0	3036.0	3103.6	3050.6	2926.7	2861.1
52.5°	2341.5	2307.2	2238.5	2251.0	2265.5	2316.5	2288.4	2204.1	2140.6
55°	1676.2	1652.3	1675.2	1656.5	1663.7	1712.7	1674.2	1604.4	1587.7
57.5°	1132.8	1146.3	1165.0	1168.2	1153.6	1139.0	1133.8	1106.7	1121.3
60°	750.7	761.1	792.3	801.7	779.8	748.6	754.8	754.8	768.4
62.5°	485.2	494.5	531.0	537.2	506.0	497.7	497.7	494.5	519.5
65°	309.2	328.0	339.4	322.8	321.7	310.3	319.6	319.6	326.9
67.5°	185.3	168.7	180.1	187.4	180.1	170.7	168.7	169.7	180.1
70°	107.2	103.1	110.4	106.2	110.4	95.8	107.2	102.0	105.2
72.5°	68.7	67.7	67.7	71.8	67.7	65.6	69.8	60.4	66.6
75°	63.5	63.5	63.5	55.2	63.5	61.4	64.6	48.9	55.2
77.5°	25.0	29.2	35.4	34.4	34.4	32.3	29.2	25.0	38.5
80°	22.9	20.8	28.1	33.3	20.8	25.0	28.1	17.7	18.7
82.5°	11.5	10.4	13.5	13.5	13.5	7.3	18.7	11.5	9.4
85°	9.4	4.2	6.2	6.2	6.2	8.3	18.7	5.2	13.5
87.5°	2.1	3.1	5.2	5.2	6.2	10.4	18.7	4.2	15.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)