

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: P248082

Luminaire Tested: **LD8B175D010 ER8B175950 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175950 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18027.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

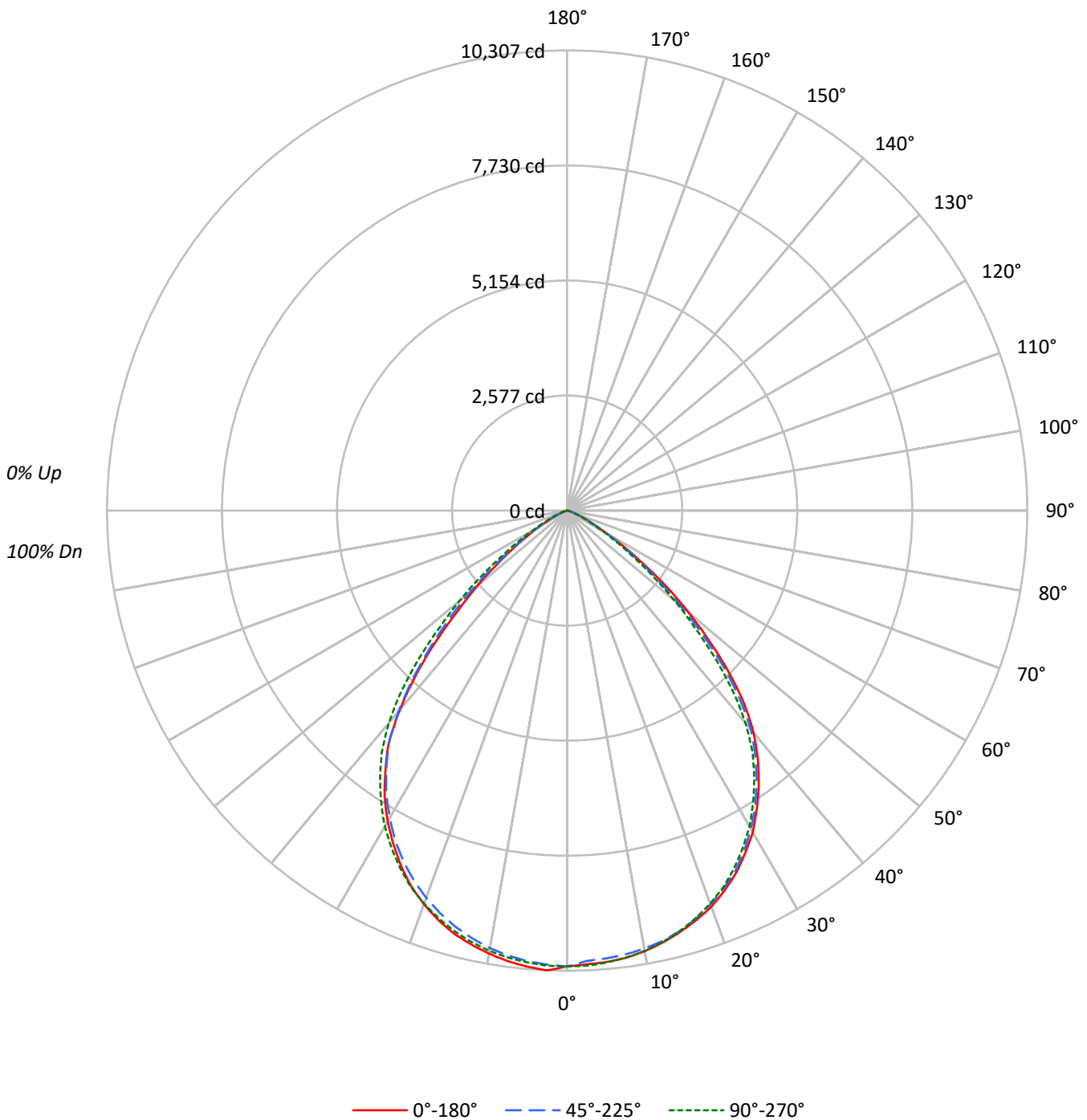
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	314848	314848	314848
5°	314212	314534	317338
10°	313771	313574	315500
15°	311962	311397	313092
20°	309875	307414	307893
25°	304638	300991	299184
30°	296084	290857	286260
35°	281752	274972	267330
40°	261639	250408	234942
45°	223017	205264	182247
50°	169814	151287	126212
55°	111942	97561	78583
60°	62863	55283	43405
65°	32966	29478	20963
70°	15769	13894	8727
75°	8936	9674	6076
80°	6837	6659	3516
85°	4069	3326	1486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	964.2	5.3
10°-20°	2746.4	15.2
20°-30°	4057.3	22.5
30°-40°	4521.4	25.1
40°-50°	3570.7	19.8
50°-60°	1649.0	9.1
60°-70°	423.6	2.3
70°-80°	81.6	0.5
80°-90°	12.8	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°	7767.9	43.1
0°-40°	12289.4	68.2
0°-60°	17509.0	97.1
0°-90°	18027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18027.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10210	10210	10210	10210	10210	
5°	10151	10070	10161	10130	10252	965
15°	9772	9749	9754	9652	9807	2758
25°	8954	8912	8846	8669	8793	4114
35°	7485	7401	7304	7061	7102	4661
45°	5114	4965	4707	4331	4179	3903
55°	2082	1962	1815	1553	1462	1930
65°	452	458	404	309	287	496
75°	75	79	81	61	51	90
85°	12	12	9	5	4	16
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°	10210.3	10210.3	10210.3	10210.3	10210.3	10210.3	10210.3	10210.3	10210.3
2.5°	10171.7	10219.6	10097.8	10196.7	10200.9	10131.1	10179.0	10236.3	10307.1
5°	10150.9	10199.9	10069.7	10161.3	10161.3	10085.3	10130.1	10180.1	10251.9
7.5°	10102.0	10155.1	10027.0	10112.4	10098.9	10015.6	10055.1	10104.1	10181.1
10°	10020.8	10086.4	9961.4	10042.6	10014.5	9918.8	9953.1	10004.1	10076.0
12.5°	9909.4	9987.5	9870.9	9941.7	9896.9	9787.6	9815.7	9881.3	9952.1
15°	9772.0	9852.1	9749.1	9810.5	9754.3	9632.4	9652.2	9718.9	9807.4
17.5°	9618.9	9697.0	9581.4	9648.1	9573.1	9447.1	9454.4	9531.5	9611.6
20°	9443.0	9507.5	9388.8	9452.3	9368.0	9229.5	9230.6	9299.3	9382.6
22.5°	9211.8	9279.5	9156.7	9209.8	9132.7	8984.9	8967.2	9033.8	9114.0
25°	8953.6	9024.4	8912.0	8930.7	8846.4	8693.4	8669.4	8718.3	8793.3
27.5°	8644.4	8714.2	8587.2	8611.1	8518.4	8371.7	8339.4	8365.4	8424.7
30°	8315.4	8359.2	8238.4	8258.2	8168.6	7994.8	7945.8	7981.2	8039.5
32.5°	7910.4	7941.7	7838.6	7849.0	7752.2	7602.3	7537.7	7548.1	7607.5
35°	7484.6	7501.3	7401.3	7403.4	7304.5	7152.5	7060.9	7055.7	7101.5
37.5°	7015.1	7026.5	6925.5	6920.3	6818.3	6653.8	6558.0	6541.4	6569.5
40°	6499.7	6515.3	6410.2	6376.9	6220.7	6033.3	5877.1	5848.0	5836.5
42.5°	5875.0	5832.4	5722.0	5665.8	5508.6	5268.1	5123.4	5079.6	5042.1
45°	5114.0	5079.6	4965.1	4838.1	4706.9	4525.8	4331.1	4211.3	4179.1
47.5°	4315.4	4274.8	4110.3	3998.9	3869.8	3786.6	3577.3	3393.0	3312.8
50°	3539.8	3495.0	3311.8	3229.6	3153.6	3029.7	2826.6	2661.1	2630.9
52.5°	2822.5	2754.8	2597.6	2512.2	2444.6	2307.1	2123.9	2028.1	1977.1
55°	2082.2	2071.8	1962.5	1901.1	1814.7	1705.4	1553.4	1481.5	1461.7
57.5°	1516.9	1478.4	1436.7	1384.7	1309.7	1172.3	1078.6	1024.5	1020.3
60°	1019.3	1031.8	1031.8	974.5	896.4	806.9	731.9	702.8	703.8
62.5°	684.0	692.3	690.3	665.3	604.9	532.0	483.1	462.3	463.3
65°	451.8	449.8	458.1	440.4	404.0	352.9	309.2	297.8	287.3
67.5°	287.3	290.5	287.3	278.0	256.1	219.7	190.5	172.8	167.6
70°	174.9	170.7	171.8	169.7	154.1	136.4	115.6	101.0	96.8
72.5°	105.2	108.3	109.3	112.4	110.4	97.9	83.3	72.9	70.8
75°	75.0	76.0	79.1	82.2	81.2	72.9	61.4	54.1	51.0
77.5°	56.2	56.2	58.3	62.5	59.3	52.1	43.7	37.5	35.4
80°	38.5	39.6	40.6	40.6	37.5	33.3	26.0	21.9	19.8
82.5°	22.9	23.9	22.9	22.9	20.8	16.7	12.5	11.5	10.4
85°	11.5	11.5	11.5	11.5	9.4	7.3	5.2	4.2	4.2
87.5°	5.2	5.2	5.2	4.2	3.1	2.1	2.1	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)