

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: P248077

Luminaire Tested: **LD8B200D010 ER8B200935 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248077
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: LD8B200D010 ER8B200935 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19651.0 lumens
Efficiency: N/A
Efficacy: 88.0 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

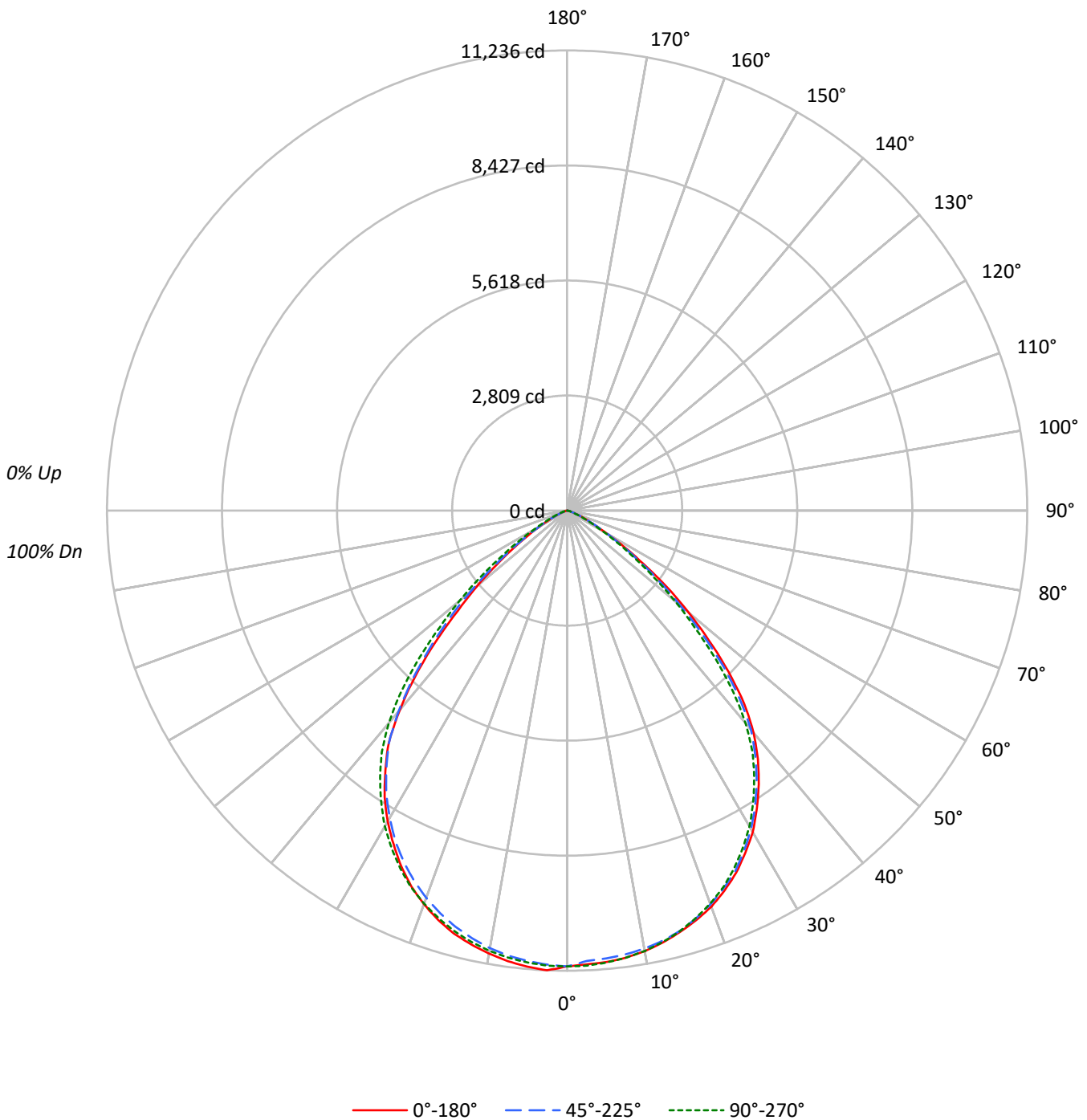
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	343211	343211	343211
5°	342520	342869	345928
10°	342037	341824	343922
15°	340065	339449	341297
20°	337791	335107	335629
25°	332082	328105	326138
30°	322757	317060	312050
35°	307135	299742	291411
40°	285211	272966	256108
45°	243108	223754	198661
50°	185113	164911	137581
55°	122028	106351	85664
60°	68524	60266	47315
65°	35943	32126	22853
70°	17193	15147	9512
75°	9734	10544	6624
80°	7458	7263	3836
85°	4423	3609	1592



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1051.1	5.3
10°-20°	2993.8	15.2
20°-30°	4422.8	22.5
30°-40°	4928.8	25.1
40°-50°	3892.4	19.8
50°-60°	1797.5	9.1
60°-70°	461.8	2.3
70°-80°	88.9	0.5
80°-90°	13.9	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°	8467.7	43.1
0°-40°	13396.5	68.2
0°-60°	19086.3	97.1
0°-90°	19651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19651.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11130	11130	11130	11130	11130	
5°	11065	10977	11077	11043	11176	###
15°	10652	10627	10633	10522	10691	3006
25°	9760	9715	9643	9450	9586	4485
35°	8159	8068	7962	7697	7741	5081
45°	5575	5412	5131	4721	4556	4255
55°	2270	2139	1978	1693	1593	2103
65°	493	499	440	337	313	541
75°	82	86	88	67	56	98
85°	12	12	10	6	4	17
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°	11130.1	11130.1	11130.1	11130.1	11130.1	11130.1	11130.1	11130.1	11130.1
2.5°	11088.1	11140.3	11007.5	11115.3	11119.9	11043.8	11096.0	11158.5	11235.6
5°	11065.4	11118.7	10976.9	11076.7	11076.7	10993.9	11042.7	11097.2	11175.5
7.5°	11012.1	11069.9	10930.3	11023.4	11008.6	10917.9	10961.0	11014.3	11098.3
10°	10923.5	10995.0	10858.8	10947.4	10916.7	10812.3	10849.8	10905.4	10983.7
12.5°	10802.1	10887.2	10760.1	10837.3	10788.5	10669.3	10700.0	10771.5	10848.6
15°	10652.3	10739.7	10627.3	10694.3	10633.0	10500.2	10521.8	10594.4	10690.9
17.5°	10485.5	10570.6	10444.6	10517.2	10435.5	10298.2	10306.1	10390.1	10477.5
20°	10293.7	10364.0	10234.6	10303.9	10211.9	10061.0	10062.1	10137.0	10227.8
22.5°	10041.7	10115.5	9981.6	10039.4	9955.4	9794.3	9775.0	9847.6	9935.0
25°	9760.2	9837.4	9714.8	9735.3	9643.3	9476.5	9450.4	9503.8	9585.5
27.5°	9423.2	9499.2	9360.8	9386.9	9285.9	9125.8	9090.6	9119.0	9183.7
30°	9064.5	9112.2	8980.6	9002.1	8904.5	8715.0	8661.6	8700.2	8763.8
32.5°	8623.1	8657.1	8544.8	8556.1	8450.6	8287.1	8216.8	8228.1	8292.8
35°	8158.9	8177.0	8068.1	8070.4	7962.5	7796.8	7697.0	7691.3	7741.2
37.5°	7647.0	7659.5	7549.4	7543.8	7432.5	7253.2	7148.8	7130.7	7161.3
40°	7085.3	7102.3	6987.7	6951.3	6781.1	6576.8	6406.6	6374.8	6362.3
42.5°	6404.3	6357.8	6237.5	6176.2	6004.8	5742.7	5584.9	5537.2	5496.4
45°	5574.7	5537.2	5412.4	5273.9	5130.9	4933.5	4721.2	4590.7	4555.5
47.5°	4704.2	4659.9	4480.6	4359.2	4218.5	4127.7	3899.6	3698.7	3611.3
50°	3858.7	3809.9	3610.2	3520.5	3437.6	3302.6	3081.3	2900.8	2867.9
52.5°	3076.7	3003.0	2831.6	2738.5	2664.8	2515.0	2315.2	2210.8	2155.2
55°	2269.8	2258.5	2139.3	2072.3	1978.2	1859.0	1693.3	1615.0	1593.4
57.5°	1653.6	1611.6	1566.2	1509.4	1427.7	1277.9	1175.8	1116.8	1112.2
60°	1111.1	1124.7	1124.7	1062.3	977.2	879.6	797.8	766.1	767.2
62.5°	745.6	754.7	752.4	725.2	659.4	579.9	526.6	503.9	505.0
65°	492.6	490.3	499.4	480.1	440.3	384.7	337.1	324.6	313.2
67.5°	313.2	316.6	313.2	303.0	279.2	239.5	207.7	188.4	182.7
70°	190.7	186.1	187.3	185.0	168.0	148.7	126.0	110.1	105.5
72.5°	114.6	118.0	119.2	122.6	120.3	106.7	90.8	79.4	77.2
75°	81.7	82.8	86.3	89.7	88.5	79.4	67.0	59.0	55.6
77.5°	61.3	61.3	63.6	68.1	64.7	56.7	47.7	40.9	38.6
80°	42.0	43.1	44.3	44.3	40.9	36.3	28.4	23.8	21.6
82.5°	25.0	26.1	25.0	25.0	22.7	18.2	13.6	12.5	11.3
85°	12.5	12.5	12.5	12.5	10.2	7.9	5.7	4.5	4.5
87.5°	5.7	5.7	5.7	4.5	3.4	2.3	2.3	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)