

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: P247884

Luminaire Tested: **LD8B175D010 ER8B175840 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175840 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20343.0 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

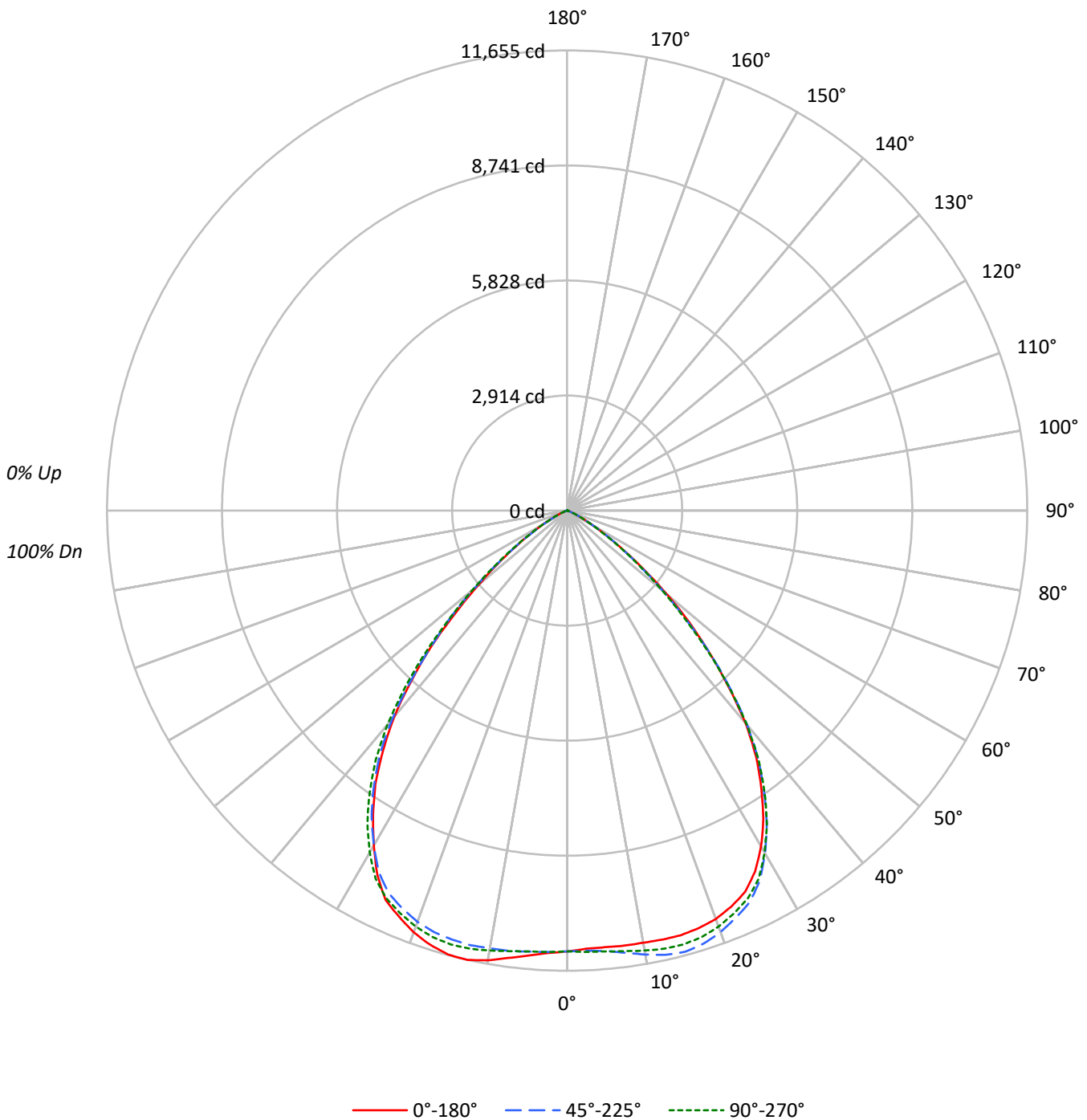
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	344284	344284	344284
5°	343622	346921	350150
10°	347945	354302	362170
15°	355465	363162	371613
20°	361264	367925	373005
25°	362666	368580	370373
30°	349822	355932	348583
35°	322633	328291	318620
40°	282873	284994	274158
45°	222119	220309	211897
50°	157821	150447	140172
55°	93889	90513	84782
60°	47106	45169	44824
65°	19803	19066	19562
70°	7384	6374	6167
75°	2943	3205	3205
80°	3392	2397	799
85°	3573	6758	2795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1073.7	5.3
10°-20°	3214.8	15.8
20°-30°	4940.9	24.3
30°-40°	5345.1	26.3
40°-50°	3852.6	18.9
50°-60°	1563.9	7.7
60°-70°	312.4	1.5
70°-80°	31.3	0.2
80°-90°	8.4	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°	9229.4	45.4
0°-40°	14574.5	71.6
0°-60°	19991.0	98.3
0°-90°	20343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20343.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11165	11165	11165	11165	11165	
5°	11101	11195	11208	11212	11312	###
15°	11135	11566	11376	11249	11640	3146
25°	10659	10943	10833	10694	10886	4872
35°	8571	8696	8721	8542	8464	5322
45°	5093	5118	5052	4883	4859	3929
55°	1746	1693	1684	1626	1577	1638
65°	271	294	261	249	268	323
75°	25	30	27	26	27	32
85°	10	15	19	9	8	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°	11164.9	11164.9	11164.9	11164.9	11164.9	11164.9	11164.9	11164.9	11164.9
2.5°	11107.7	11178.4	11154.8	11124.6	11188.5	11176.2	11189.6	11195.2	11216.5
5°	11101.0	11180.6	11195.2	11162.7	11207.6	11186.3	11212.0	11260.3	11311.9
7.5°	11112.2	11232.2	11295.1	11276.0	11254.7	11181.8	11249.1	11360.1	11428.5
10°	11112.2	11271.5	11417.3	11416.2	11315.2	11179.5	11254.7	11446.5	11566.5
12.5°	11130.2	11325.3	11525.0	11538.5	11366.8	11195.2	11276.0	11502.6	11655.1
15°	11134.7	11326.5	11566.5	11573.2	11375.8	11173.9	11249.1	11492.5	11640.5
17.5°	11087.5	11272.6	11500.3	11523.9	11325.3	11120.1	11196.3	11413.9	11531.7
20°	11009.0	11175.0	11360.1	11399.4	11212.0	11016.9	11084.2	11271.5	11366.8
22.5°	10858.7	11010.2	11162.7	11191.9	11041.6	10871.1	10904.7	11050.5	11130.2
25°	10659.1	10809.4	10942.9	10958.6	10832.9	10680.4	10693.8	10804.9	10885.6
27.5°	10304.6	10447.1	10568.2	10587.3	10512.1	10349.5	10324.8	10377.5	10411.2
30°	9824.6	9922.1	10023.1	10083.7	9996.2	9861.6	9792.0	9820.1	9789.8
32.5°	9248.0	9347.9	9409.6	9428.6	9415.2	9297.4	9215.5	9144.8	9149.3
35°	8570.6	8661.4	8696.2	8731.0	8720.9	8628.9	8542.5	8476.3	8464.0
37.5°	7860.5	7921.1	7960.4	7987.3	7964.9	7906.5	7794.4	7680.0	7660.9
40°	7027.2	7119.1	7087.7	7101.2	7079.9	7005.8	6893.7	6828.6	6810.7
42.5°	6049.1	6129.8	6123.1	6127.6	6080.5	5979.5	5882.0	5846.1	5827.0
45°	5093.4	5132.7	5118.1	5071.0	5051.9	4989.1	4882.6	4814.1	4859.0
47.5°	4193.9	4180.4	4082.8	4044.7	4016.6	4025.6	4002.1	3882.0	3817.0
50°	3289.8	3255.0	3161.9	3104.7	3136.1	3160.8	3073.3	3001.5	2921.9
52.5°	2439.6	2446.3	2357.7	2294.9	2324.1	2328.6	2277.0	2236.6	2213.0
55°	1746.4	1746.4	1692.6	1672.4	1683.6	1662.3	1626.4	1612.9	1577.0
57.5°	1187.8	1195.7	1192.3	1168.8	1116.0	1097.0	1076.8	1097.0	1109.3
60°	763.8	782.9	779.5	777.3	732.4	687.6	706.6	724.6	726.8
62.5°	470.0	478.9	494.6	481.2	458.8	422.9	418.4	445.3	470.0
65°	271.4	281.5	293.9	284.9	261.3	255.7	249.0	263.6	268.1
67.5°	154.8	150.3	151.4	144.7	138.0	130.1	131.2	138.0	148.1
70°	81.9	70.7	71.8	65.1	70.7	62.8	60.6	66.2	68.4
72.5°	41.5	40.4	46.0	46.0	49.4	43.7	43.7	41.5	47.1
75°	24.7	28.0	30.3	33.6	26.9	25.8	25.8	25.8	26.9
77.5°	6.7	3.4	4.5	14.6	5.6	11.2	5.6	4.5	10.1
80°	19.1	11.2	6.7	12.3	13.5	6.7	16.8	15.7	4.5
82.5°	6.7	0.0	12.3	13.5	11.2	11.2	13.5	13.5	12.3
85°	10.1	6.7	14.6	16.8	19.1	11.2	9.0	5.6	7.9
87.5°	4.5	0.0	6.7	5.6	3.4	1.1	3.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)