

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: P247704

Luminaire Tested: **LD8B100D010 ER8B100940 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100940 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10019.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

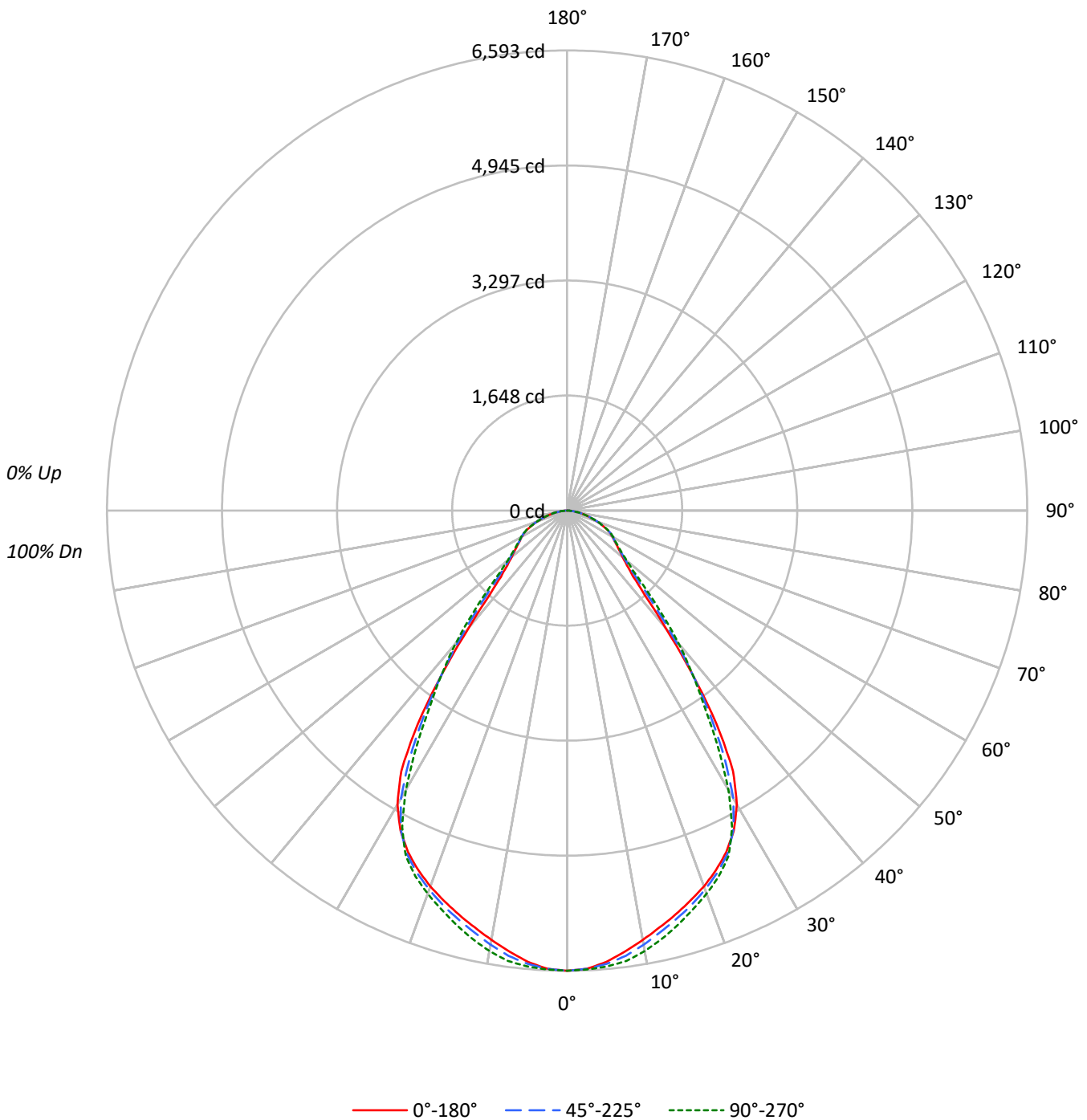
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78				78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63				63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57				57
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51				51
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47				47
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43				43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	203310	203310	203310
5°	200827	201793	202941
10°	195575	197748	200647
15°	191305	193336	196107
20°	188022	189617	191707
25°	183604	184748	185969
30°	173106	169395	164407
35°	140526	134205	129067
40°	87878	95378	99991
45°	58554	64057	69509
50°	49920	51422	53197
55°	46670	47294	47977
60°	46261	46544	46970
65°	45100	45610	45946
70°	40905	41221	41536
75°	35719	36136	36267
80°	30419	30419	31236
85°	24590	24590	24590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.1	6.1
10°-20°	1709.3	17.1
20°-30°	2471.1	24.7
30°-40°	2211.5	22.1
40°-50°	1196.8	11.9
50°-60°	797.7	8.0
60°-70°	610.9	6.1
70°-80°	323.7	3.2
80°-90°	81.9	0.8
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°	4796.5	47.9
0°-40°	7008.0	69.9
0°-60°	9002.5	89.9
0°-90°	10019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6593	6593	6593	6593	6593	
5°	6488	6491	6519	6545	6556	611
15°	5992	6004	6056	6115	6143	1691
25°	5396	5409	5430	5455	5466	2469
35°	3733	3695	3565	3462	3429	2260
45°	1343	1382	1469	1560	1594	1105
55°	868	872	880	889	892	785
65°	618	620	625	630	630	606
75°	300	300	303	304	304	322
85°	70	70	70	71	70	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6593.2	6593.2	6593.2	6593.2	6593.2
2.5°	6571.2	6568.9	6570.1	6577.0	6580.5
5°	6487.9	6491.3	6519.1	6544.6	6556.2
7.5°	6371.0	6386.0	6433.5	6483.2	6508.7
10°	6246.0	6261.0	6315.4	6386.0	6408.0
12.5°	6117.5	6136.0	6184.6	6256.4	6283.0
15°	5992.5	6004.0	6056.1	6115.2	6142.9
17.5°	5864.0	5875.5	5923.0	5969.3	5991.3
20°	5729.7	5742.4	5778.3	5817.7	5842.0
22.5°	5575.7	5588.5	5618.6	5653.3	5675.3
25°	5396.3	5409.1	5429.9	5455.4	5465.8
27.5°	5169.5	5177.6	5157.9	5137.1	5118.5
30°	4861.6	4836.1	4757.4	4656.7	4617.3
32.5°	4424.0	4341.8	4190.2	4067.5	4022.4
35°	3733.0	3694.8	3565.1	3462.1	3428.6
37.5°	2927.4	2952.8	2943.6	2936.6	2943.6
40°	2183.1	2242.1	2369.4	2456.2	2484.0
42.5°	1652.9	1709.6	1853.2	1973.6	2015.2
45°	1342.7	1382.1	1468.9	1560.3	1593.9
47.5°	1158.7	1180.7	1224.7	1273.3	1289.5
50°	1040.6	1049.9	1071.9	1099.6	1108.9
52.5°	946.8	951.5	964.2	979.3	981.6
55°	868.1	871.6	879.7	889.0	892.4
57.5°	802.2	805.6	807.9	813.7	816.0
60°	750.1	750.1	754.7	759.3	761.6
62.5°	693.4	693.4	698.0	702.6	702.6
65°	618.1	620.4	625.1	629.7	629.7
67.5°	535.9	537.1	540.6	545.2	544.0
70°	453.7	453.7	457.2	459.5	460.7
72.5°	375.0	373.9	379.7	380.8	377.3
75°	299.8	299.8	303.3	304.4	304.4
77.5°	233.8	232.7	232.7	233.8	235.0
80°	171.3	172.5	171.3	173.6	175.9
82.5°	119.2	118.1	118.1	118.1	116.9
85°	69.5	69.5	69.5	70.6	69.5
87.5°	27.8	27.8	26.6	26.6	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)