

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: METALUX

Report Number: P274730

Luminaire Tested: **14CZ2-60HE-RDP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P274730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-60HE-RDP-UNV-L950-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (196) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3504.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

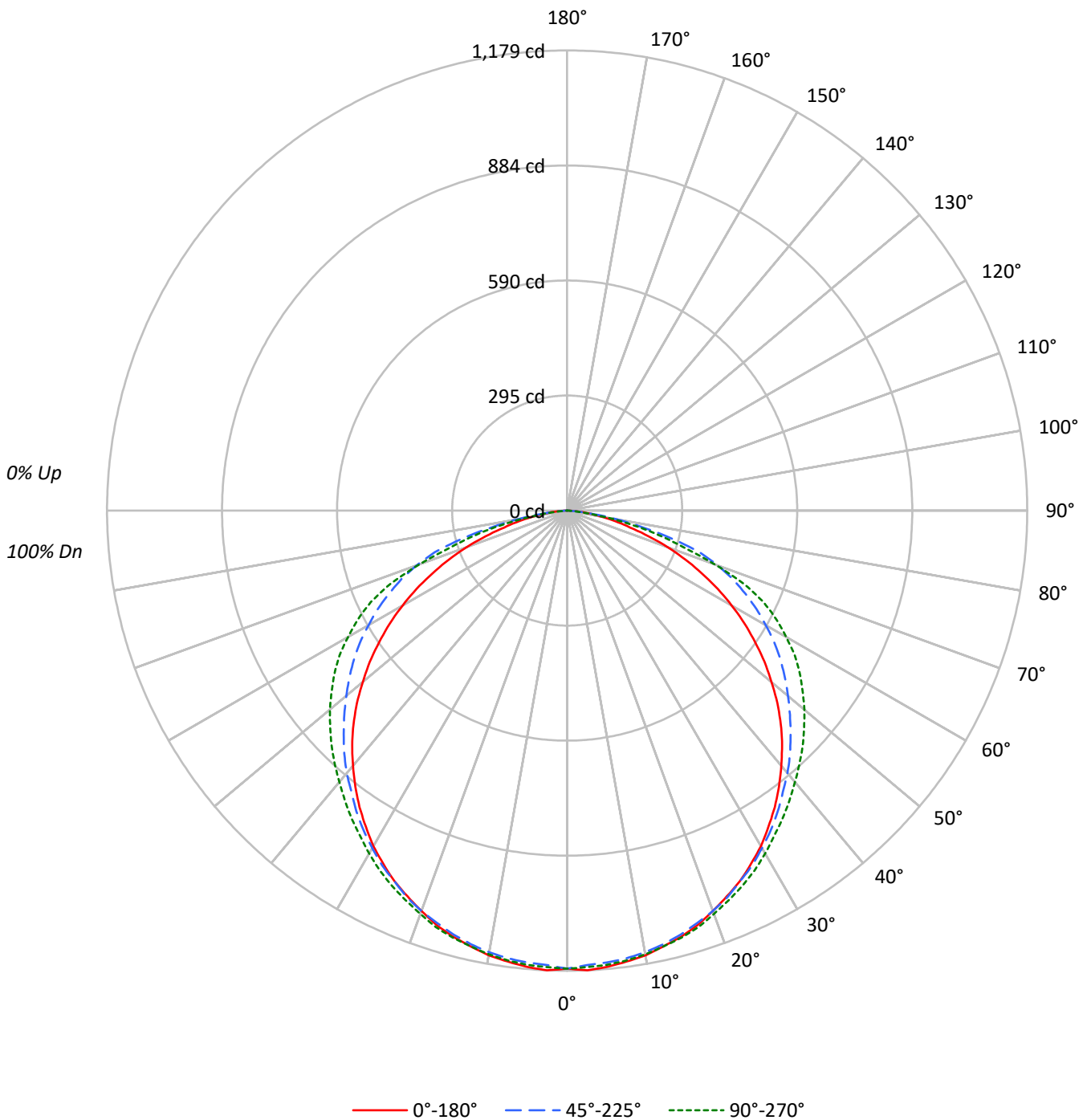
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3158	3158	3158
5°	3170	3140	3155
10°	3162	3140	3154
15°	3148	3132	3155
20°	3126	3126	3149
25°	3111	3111	3151
30°	3086	3103	3154
35°	3047	3092	3163
40°	2998	3085	3190
45°	2946	3081	3248
50°	2863	3092	3321
55°	2760	3132	3414
60°	2620	3166	3489
65°	2422	3205	3536
70°	2153	3228	3164
75°	1735	2901	2532
80°	1356	2035	1654
85°	929	590	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	3.2
10°-20°	318.7	9.1
20°-30°	485.3	13.8
30°-40°	591.1	16.9
40°-50°	627.1	17.9
50°-60°	591.8	16.9
60°-70°	477.9	13.6
70°-80°	259.2	7.4
80°-90°	41.9	1.2
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°	915.0	26.1
0°-40°	1506.1	43.0
0°-60°	2725.0	77.8
0°-90°	3504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1174	1171	1163	1171	1168	111
15°	1130	1127	1124	1132	1132	319
25°	1048	1045	1048	1059	1061	482
35°	927	933	941	960	963	580
45°	774	785	810	840	854	596
55°	588	613	668	711	728	525
65°	380	427	503	544	555	377
75°	167	244	279	252	244	182
85°	30	33	19	16	14	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.6	1173.6	1173.6	1173.6	1173.6
2.5°	1179.1	1173.6	1165.4	1173.6	1170.8
5°	1173.6	1170.8	1162.6	1170.8	1168.1
7.5°	1165.4	1165.4	1157.2	1162.6	1162.6
10°	1157.2	1154.4	1149.0	1157.2	1154.4
12.5°	1143.5	1140.8	1138.0	1146.2	1143.5
15°	1129.8	1127.1	1124.3	1132.5	1132.5
17.5°	1113.4	1110.7	1107.9	1118.9	1118.9
20°	1091.5	1091.5	1091.5	1102.5	1099.7
22.5°	1069.6	1069.6	1072.4	1083.3	1080.6
25°	1047.7	1045.0	1047.7	1058.7	1061.4
27.5°	1020.4	1023.1	1025.9	1036.8	1039.5
30°	993.0	995.8	998.5	1012.2	1014.9
32.5°	960.2	965.7	971.1	987.6	987.6
35°	927.4	932.8	941.1	960.2	962.9
37.5°	891.8	897.3	908.2	930.1	935.6
40°	853.5	861.7	878.1	900.0	908.2
42.5°	815.2	826.2	845.3	869.9	880.9
45°	774.2	785.1	809.7	839.8	853.5
47.5°	730.4	744.1	774.2	812.5	823.4
50°	683.9	703.1	738.6	779.7	793.3
52.5°	637.4	659.3	703.1	746.8	760.5
55°	588.2	612.8	667.5	711.3	727.7
57.5°	538.9	566.3	629.2	675.7	692.1
60°	486.9	519.8	588.2	634.7	648.3
62.5°	435.0	473.3	547.1	593.6	604.6
65°	380.3	426.8	503.4	544.4	555.3
67.5°	328.3	383.0	459.6	489.7	489.7
70°	273.6	333.7	410.3	418.5	402.1
72.5°	218.8	287.2	355.6	325.5	311.9
75°	166.9	243.5	279.0	251.7	243.5
77.5°	125.8	197.0	197.0	180.6	175.1
80°	87.5	150.5	131.3	114.9	106.7
82.5°	57.4	84.8	68.4	54.7	46.5
85°	30.1	32.8	19.1	16.4	13.7
87.5°	10.9	5.5	2.7	5.5	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)