

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: P276777

Luminaire Tested: **24CZ2-75HE-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-75HE-RDP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4532.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

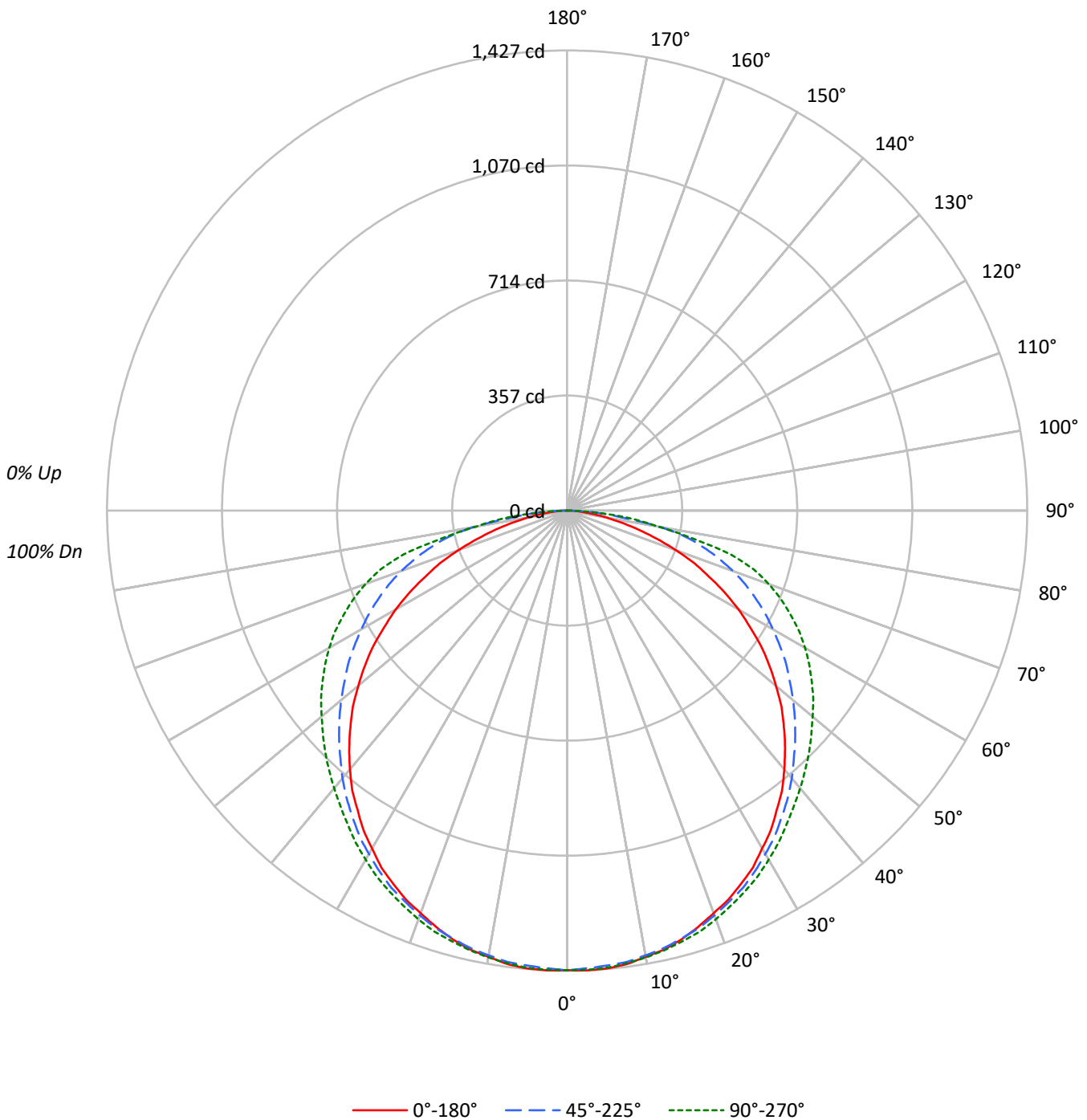
Input Watts (W): 58.287192
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1918	1918	1918
5°	1925	1913	1922
10°	1920	1913	1923
15°	1916	1913	1926
20°	1902	1912	1931
25°	1896	1916	1936
30°	1879	1910	1942
35°	1861	1905	1950
40°	1840	1903	1974
45°	1809	1903	2019
50°	1769	1915	2080
55°	1724	1946	2172
60°	1651	1984	2293
65°	1546	2054	2433
70°	1406	2149	2618
75°	1192	2267	2734
80°	941	2282	2212
85°	695	1735	1944



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	3.0
10°-20°	389.1	8.6
20°-30°	595.0	13.1
30°-40°	727.4	16.0
40°-50°	775.2	17.1
50°-60°	741.2	16.4
60°-70°	627.9	13.9
70°-80°	422.0	9.3
80°-90°	119.1	2.6
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°	1119.3	24.7
0°-40°	1846.6	40.7
0°-60°	3363.0	74.2
0°-90°	4532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1425	1425	1425	1425	1425	
5°	1425	1423	1416	1423	1423	135
15°	1376	1376	1374	1385	1382	388
25°	1277	1281	1290	1302	1304	588
35°	1133	1142	1160	1182	1187	710
45°	951	967	1000	1043	1061	733
55°	735	762	830	895	926	655
65°	486	535	645	731	764	482
75°	229	312	436	510	526	245
85°	45	92	112	121	126	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1425.2	1425.2	1425.2	1425.2	1425.2
2.5°	1427.4	1427.4	1420.7	1425.2	1425.2
5°	1425.2	1422.9	1416.2	1422.9	1422.9
7.5°	1418.4	1416.2	1411.7	1418.4	1416.2
10°	1405.0	1405.0	1400.5	1407.2	1407.2
12.5°	1393.7	1391.5	1389.2	1398.2	1396.0
15°	1375.7	1375.7	1373.5	1384.7	1382.5
17.5°	1353.3	1355.5	1357.7	1366.7	1369.0
20°	1328.5	1333.0	1335.3	1348.8	1348.8
22.5°	1306.0	1308.3	1312.8	1326.3	1326.3
25°	1276.8	1281.3	1290.3	1301.5	1303.8
27.5°	1247.6	1249.8	1261.1	1276.8	1279.1
30°	1209.4	1216.1	1229.6	1247.6	1249.8
32.5°	1175.7	1182.4	1198.1	1216.1	1220.6
35°	1133.0	1141.9	1159.9	1182.4	1186.9
37.5°	1094.7	1101.5	1124.0	1148.7	1155.4
40°	1047.5	1061.0	1083.5	1112.7	1124.0
42.5°	1000.3	1013.8	1040.8	1079.0	1092.5
45°	950.9	966.6	1000.3	1043.0	1061.0
47.5°	901.4	919.4	957.6	1007.1	1027.3
50°	845.2	867.7	914.9	971.1	993.6
52.5°	791.3	818.2	869.9	932.9	962.1
55°	735.1	762.0	829.5	894.7	926.1
57.5°	672.1	708.1	782.3	856.5	890.2
60°	613.7	647.4	737.3	818.2	852.0
62.5°	550.7	595.7	692.4	777.8	811.5
65°	485.6	535.0	645.2	730.6	764.3
67.5°	427.1	481.1	597.9	683.4	717.1
70°	357.4	424.9	546.2	631.7	665.4
72.5°	292.2	366.4	492.3	575.5	606.9
75°	229.3	312.5	436.1	510.3	526.0
77.5°	170.8	258.5	377.7	409.1	397.9
80°	121.4	206.8	294.5	278.7	285.5
82.5°	78.7	157.4	182.1	206.8	213.6
85°	45.0	92.2	112.4	121.4	125.9
87.5°	20.2	33.7	45.0	45.0	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)