

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: P272124

Luminaire Tested: **24CZ2-75HE-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: P272124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-75HE-UNV-L950-CD1-U
Description: 2'x4' TROFFER LED MODULE,RIBBED LENS, 90CRI
Light Source: (392) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6866.0 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

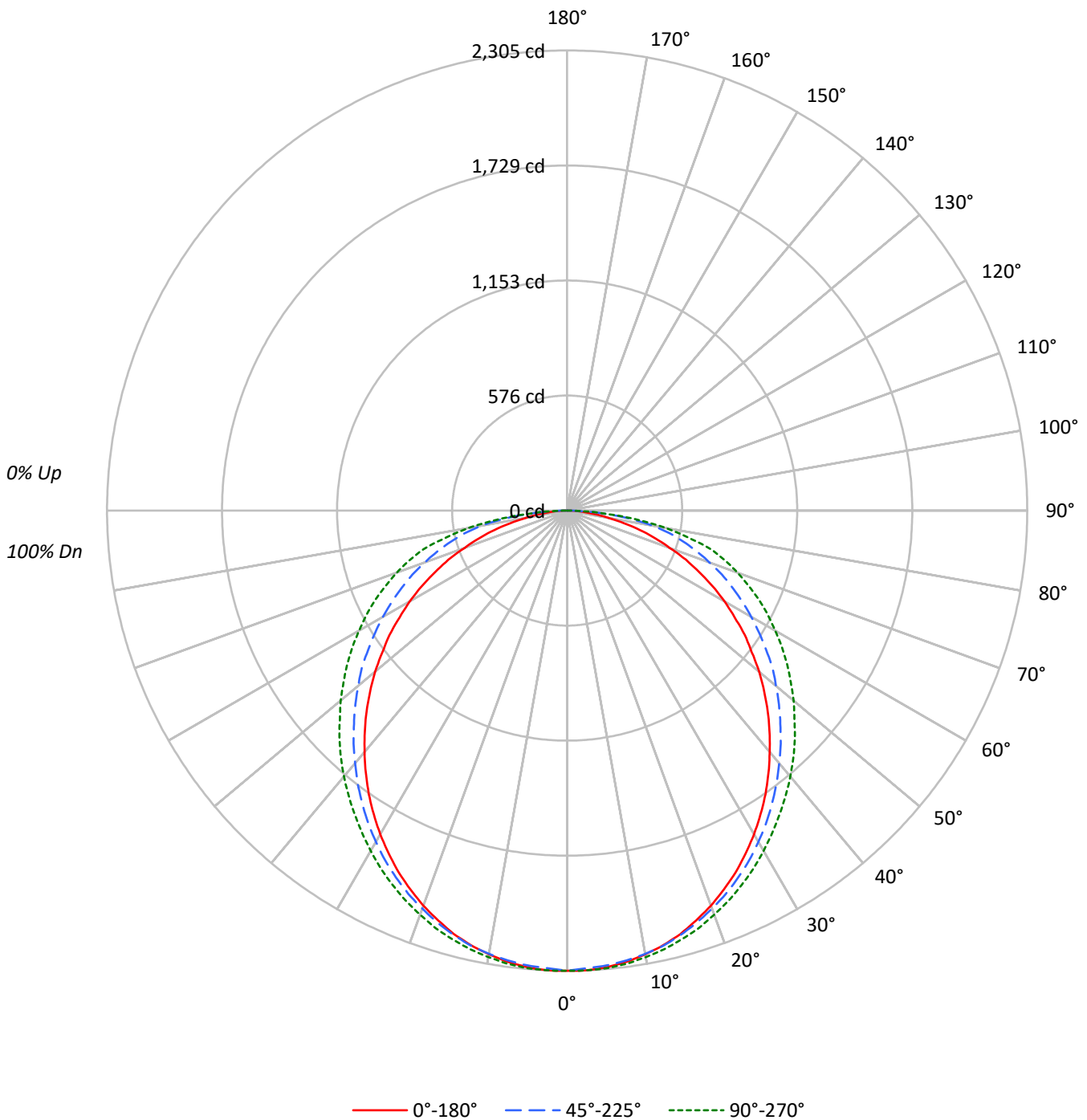
Input Watts (W): 55.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P272124

CATALOG NUMBER: 24CZ2-75HE-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P272124

CATALOG NUMBER: 24CZ2-75HE-UNV-L950-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3102	3102	3102
5°	3101	3089	3107
10°	3084	3081	3103
15°	3058	3064	3096
20°	3015	3038	3084
25°	2966	3011	3072
30°	2909	2976	3058
35°	2846	2940	3049
40°	2773	2902	3055
45°	2703	2873	3070
50°	2628	2859	3099
55°	2548	2854	3155
60°	2448	2867	3237
65°	2320	2911	3378
70°	2155	2984	3570
75°	1966	3133	3871
80°	1616	3374	3870
85°	1238	3114	3325



TEST NUMBER: P272124

CATALOG NUMBER: 24CZ2-75HE-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.0	3.2
10°-20°	622.4	9.1
20°-30°	936.7	13.6
30°-40°	1122.5	16.3
40°-50°	1169.7	17.0
50°-60°	1088.3	15.9
60°-70°	896.4	13.1
70°-80°	610.5	8.9
80°-90°	201.6	2.9
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°	1777.1	25.9
0°-40°	2899.6	42.2
0°-60°	5157.6	75.1
0°-90°	6866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2305	2305	2305	2305	2305	
5°	2296	2296	2287	2298	2301	218
15°	2195	2198	2200	2220	2223	618
25°	1998	2007	2028	2062	2069	920
35°	1732	1753	1790	1838	1856	1083
45°	1421	1450	1510	1586	1613	1096
55°	1086	1123	1217	1313	1345	968
65°	729	791	914	1022	1061	723
75°	378	463	603	710	745	399
85°	80	156	202	215	215	99
90°	0	0	0	0	0	



TEST NUMBER: P272124

CATALOG NUMBER: 24CZ2-75HE-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2305.2	2305.2	2305.2	2305.2	2305.2
2.5°	2305.2	2305.2	2293.8	2305.2	2305.2
5°	2296.1	2296.1	2286.9	2298.4	2300.7
7.5°	2280.0	2282.3	2273.2	2286.9	2289.2
10°	2257.1	2259.4	2254.8	2268.6	2270.9
12.5°	2229.6	2231.9	2231.9	2247.9	2250.2
15°	2195.2	2197.5	2199.8	2220.5	2222.7
17.5°	2151.7	2158.6	2163.2	2188.4	2193.0
20°	2105.9	2112.8	2121.9	2149.4	2154.0
22.5°	2053.2	2062.3	2078.4	2108.2	2115.0
25°	1998.2	2007.3	2028.0	2062.3	2069.2
27.5°	1936.3	1950.1	1975.3	2011.9	2021.1
30°	1872.1	1885.9	1915.7	1954.6	1968.4
32.5°	1803.4	1821.7	1856.1	1899.6	1913.4
35°	1732.4	1753.0	1789.7	1837.8	1856.1
37.5°	1656.7	1679.7	1723.2	1775.9	1798.8
40°	1578.8	1606.3	1652.2	1714.0	1739.2
42.5°	1500.9	1526.1	1583.4	1649.9	1677.4
45°	1420.7	1450.5	1510.1	1585.7	1613.2
47.5°	1338.2	1368.0	1439.1	1519.3	1544.5
50°	1255.7	1285.5	1365.7	1450.5	1480.3
52.5°	1166.4	1205.3	1297.0	1381.8	1411.6
55°	1086.2	1122.8	1216.8	1313.0	1345.1
57.5°	994.5	1038.0	1141.2	1242.0	1276.4
60°	909.7	955.5	1065.5	1168.7	1203.0
62.5°	822.6	873.1	989.9	1095.3	1134.3
65°	728.7	790.6	914.3	1022.0	1061.0
67.5°	643.9	708.1	838.7	948.7	983.0
70°	547.7	625.6	758.5	868.5	907.4
72.5°	465.2	543.1	682.9	790.6	829.5
75°	378.1	462.9	602.7	710.4	744.7
77.5°	291.0	385.0	524.8	607.2	618.7
80°	208.5	307.1	435.4	483.5	499.5
82.5°	146.7	236.0	320.8	352.9	362.1
85°	80.2	155.8	201.7	215.4	215.4
87.5°	34.4	66.5	80.2	82.5	84.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)