

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: P276264

Luminaire Tested: **24CZ2-75HE-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276264
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-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6693.9 lumens
Efficiency: N/A
Efficacy: 111.4 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

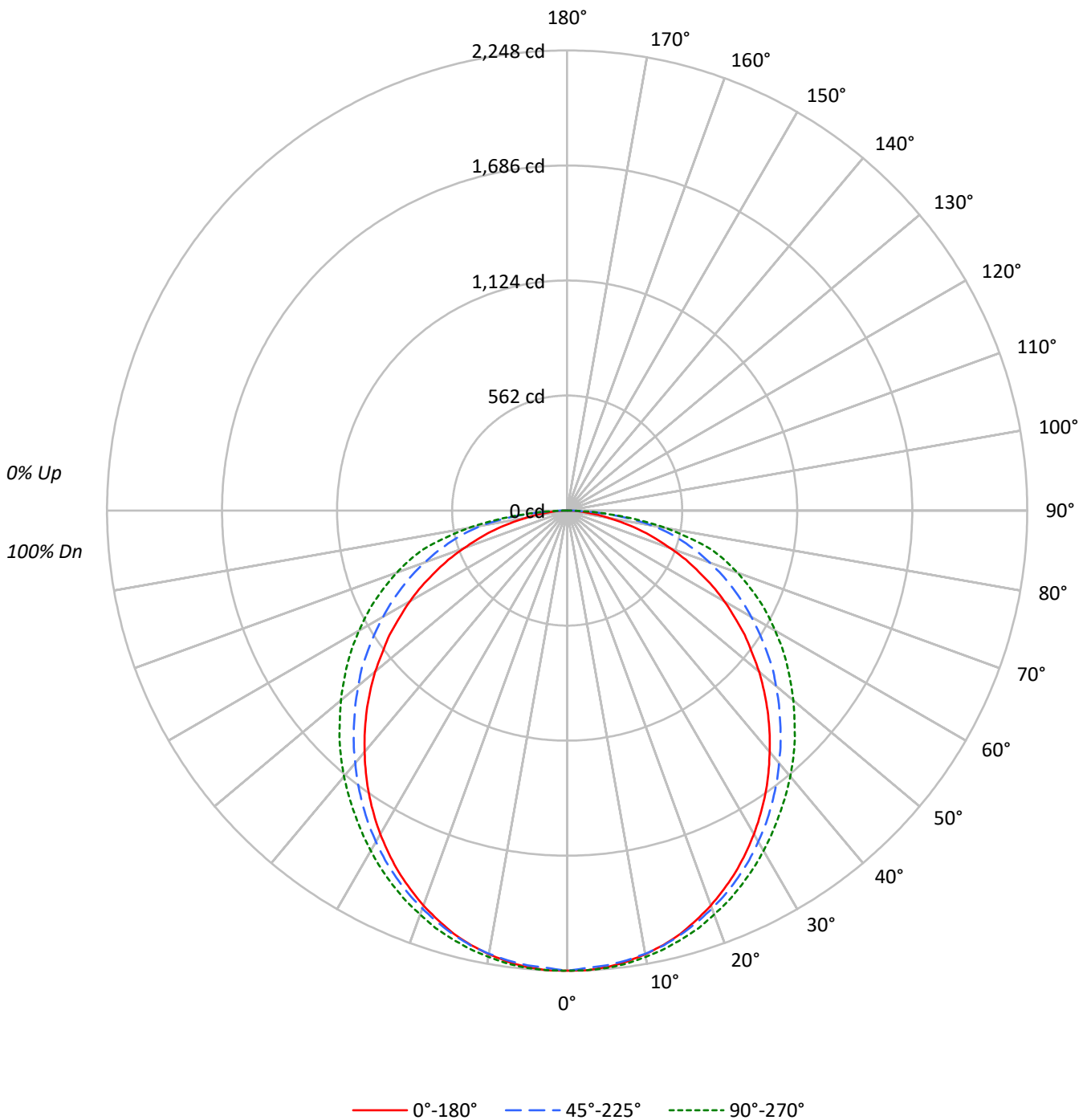
Input Watts (W): 60.078
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56					56			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48					48			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41					41			
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36					36			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32					32			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28					28			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25					25			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3024	3024	3024
5°	3023	3011	3029
10°	3006	3003	3025
15°	2981	2987	3019
20°	2940	2962	3007
25°	2892	2935	2995
30°	2836	2902	2981
35°	2774	2866	2972
40°	2704	2829	2978
45°	2636	2801	2993
50°	2563	2787	3021
55°	2484	2783	3076
60°	2387	2795	3156
65°	2262	2838	3293
70°	2100	2909	3480
75°	1916	3055	3775
80°	1575	3289	3773
85°	1207	3035	3242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.6	3.2
10°-20°	606.8	9.1
20°-30°	913.2	13.6
30°-40°	1094.3	16.3
40°-50°	1140.4	17.0
50°-60°	1061.0	15.9
60°-70°	873.9	13.1
70°-80°	595.2	8.9
80°-90°	196.5	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°	1732.6	25.9
0°-40°	2826.9	42.2
0°-60°	5028.4	75.1
0°-90°	6693.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6693.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2248	2248	2248	2248	2248	
5°	2238	2238	2230	2241	2243	212
15°	2140	2142	2145	2165	2167	603
25°	1948	1957	1977	2011	2017	897
35°	1689	1709	1745	1792	1810	1056
45°	1385	1414	1472	1546	1573	1068
55°	1059	1095	1186	1280	1311	944
65°	710	771	891	996	1034	705
75°	369	451	588	693	726	389
85°	78	152	197	210	210	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2247.5	2247.5	2247.5	2247.5	2247.5
2.5°	2247.5	2247.5	2236.3	2247.5	2247.5
5°	2238.5	2238.5	2229.6	2240.8	2243.0
7.5°	2222.9	2225.1	2216.2	2229.6	2231.8
10°	2200.5	2202.8	2198.3	2211.7	2213.9
12.5°	2173.7	2176.0	2176.0	2191.6	2193.8
15°	2140.2	2142.5	2144.7	2164.8	2167.0
17.5°	2097.8	2104.5	2108.9	2133.5	2138.0
20°	2053.1	2059.8	2068.7	2095.5	2100.0
22.5°	2001.7	2010.6	2026.3	2055.3	2062.0
25°	1948.1	1957.0	1977.1	2010.6	2017.3
27.5°	1887.8	1901.2	1925.7	1961.5	1970.4
30°	1825.2	1838.6	1867.7	1905.6	1919.0
32.5°	1758.2	1776.1	1809.6	1852.0	1865.4
35°	1688.9	1709.0	1744.8	1791.7	1809.6
37.5°	1615.2	1637.6	1680.0	1731.4	1753.7
40°	1539.3	1566.1	1610.7	1671.1	1695.6
42.5°	1463.3	1487.9	1543.7	1608.5	1635.3
45°	1385.1	1414.2	1472.2	1546.0	1572.8
47.5°	1304.7	1333.7	1403.0	1481.2	1505.7
50°	1224.3	1253.3	1331.5	1414.2	1443.2
52.5°	1137.1	1175.1	1264.5	1347.1	1376.2
55°	1058.9	1094.7	1186.3	1280.1	1311.4
57.5°	969.6	1012.0	1112.6	1210.9	1244.4
60°	886.9	931.6	1038.8	1139.4	1172.9
62.5°	802.0	851.2	965.1	1067.9	1105.9
65°	710.4	770.7	891.4	996.4	1034.4
67.5°	627.8	690.3	817.7	924.9	958.4
70°	533.9	609.9	739.5	846.7	884.7
72.5°	453.5	529.5	665.7	770.7	808.7
75°	368.6	451.3	587.6	692.6	726.1
77.5°	283.7	375.3	511.6	592.0	603.2
80°	203.3	299.4	424.5	471.4	487.0
82.5°	143.0	230.1	312.8	344.0	353.0
85°	78.2	151.9	196.6	210.0	210.0
87.5°	33.5	64.8	78.2	80.4	82.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)