

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: P276514

Luminaire Tested: **24CZ2-55HE-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55HE-S-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5751.3 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

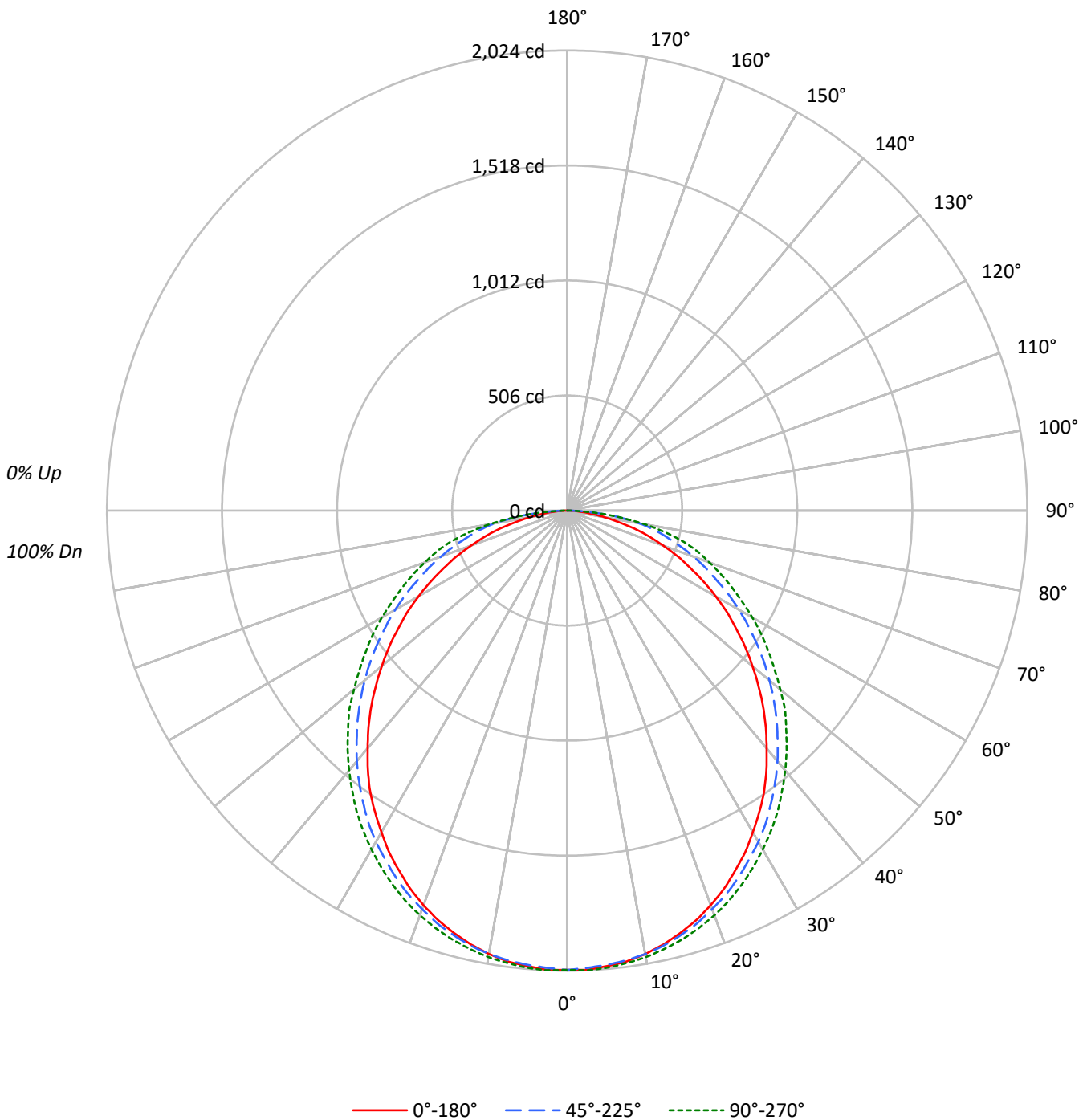
Input Watts (W): 41.199
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2719	2719	2719
5°	2717	2709	2726
10°	2706	2706	2726
15°	2679	2692	2720
20°	2644	2671	2712
25°	2595	2644	2696
30°	2537	2614	2674
35°	2482	2572	2653
40°	2397	2528	2621
45°	2319	2478	2593
50°	2229	2432	2562
55°	2130	2387	2537
60°	2030	2350	2532
65°	1902	2309	2547
70°	1761	2321	2616
75°	1577	2365	2764
80°	1274	2505	2703
85°	959	2200	2143



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.3	3.3
10°-20°	546.6	9.5
20°-30°	821.6	14.3
30°-40°	978.6	17.0
40°-50°	1001.6	17.4
50°-60°	901.7	15.7
60°-70°	708.1	12.3
70°-80°	459.6	8.0
80°-90°	142.1	2.5
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°	1559.4	27.1
0°-40°	2538.1	44.1
0°-60°	4441.4	77.2
0°-90°	5751.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5751.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2020	2020	2020	2020	2020	
5°	2011	2015	2006	2017	2019	191
15°	1924	1929	1933	1949	1953	542
25°	1748	1763	1781	1810	1816	805
35°	1511	1529	1566	1604	1615	942
45°	1218	1248	1302	1352	1363	939
55°	908	948	1018	1070	1082	814
65°	597	643	725	786	800	595
75°	303	362	455	517	532	321
85°	62	115	142	139	139	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2020.5	2020.5	2020.5	2020.5	2020.5
2.5°	2022.3	2022.3	2013.1	2022.3	2024.1
5°	2011.3	2015.0	2005.8	2016.8	2018.6
7.5°	2000.4	2000.4	1994.9	2005.8	2007.7
10°	1980.3	1982.1	1980.3	1993.1	1994.9
12.5°	1954.7	1958.3	1960.2	1973.0	1974.8
15°	1923.6	1929.1	1932.8	1949.2	1952.9
17.5°	1888.9	1894.4	1903.5	1921.8	1925.5
20°	1846.9	1854.2	1865.2	1888.9	1894.4
22.5°	1801.2	1808.5	1826.8	1848.7	1857.9
25°	1748.3	1762.9	1781.1	1810.4	1815.8
27.5°	1695.3	1708.1	1731.8	1762.9	1770.2
30°	1633.2	1653.3	1682.5	1713.5	1720.9
32.5°	1572.9	1593.0	1627.7	1660.6	1669.7
35°	1510.8	1529.0	1565.6	1603.9	1614.9
37.5°	1439.5	1463.3	1503.5	1541.8	1552.8
40°	1364.6	1393.9	1439.5	1479.7	1492.5
42.5°	1293.4	1324.4	1370.1	1414.0	1428.6
45°	1218.5	1247.7	1302.5	1351.8	1362.8
47.5°	1141.8	1174.6	1233.1	1282.4	1300.7
50°	1065.0	1099.7	1161.9	1213.0	1224.0
52.5°	988.3	1024.8	1090.6	1145.4	1150.9
55°	907.9	948.1	1017.5	1070.5	1081.5
57.5°	834.9	869.6	944.5	999.3	1012.1
60°	754.5	792.8	873.2	924.4	940.8
62.5°	677.7	717.9	802.0	853.1	867.7
65°	597.4	643.0	725.2	785.5	800.1
67.5°	527.9	571.8	659.5	717.9	732.6
70°	447.6	496.9	590.1	650.3	665.0
72.5°	378.1	429.3	522.5	580.9	602.8
75°	303.3	361.7	454.9	517.0	531.6
77.5°	230.2	297.8	392.8	440.3	440.3
80°	164.4	235.7	323.3	345.3	348.9
82.5°	107.8	177.2	239.3	237.5	237.5
85°	62.1	115.1	142.5	138.8	138.8
87.5°	23.7	47.5	51.2	51.2	49.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)