

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: P261092

Luminaire Tested: **24CZ-LD5-75-S-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-S-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5981.9 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

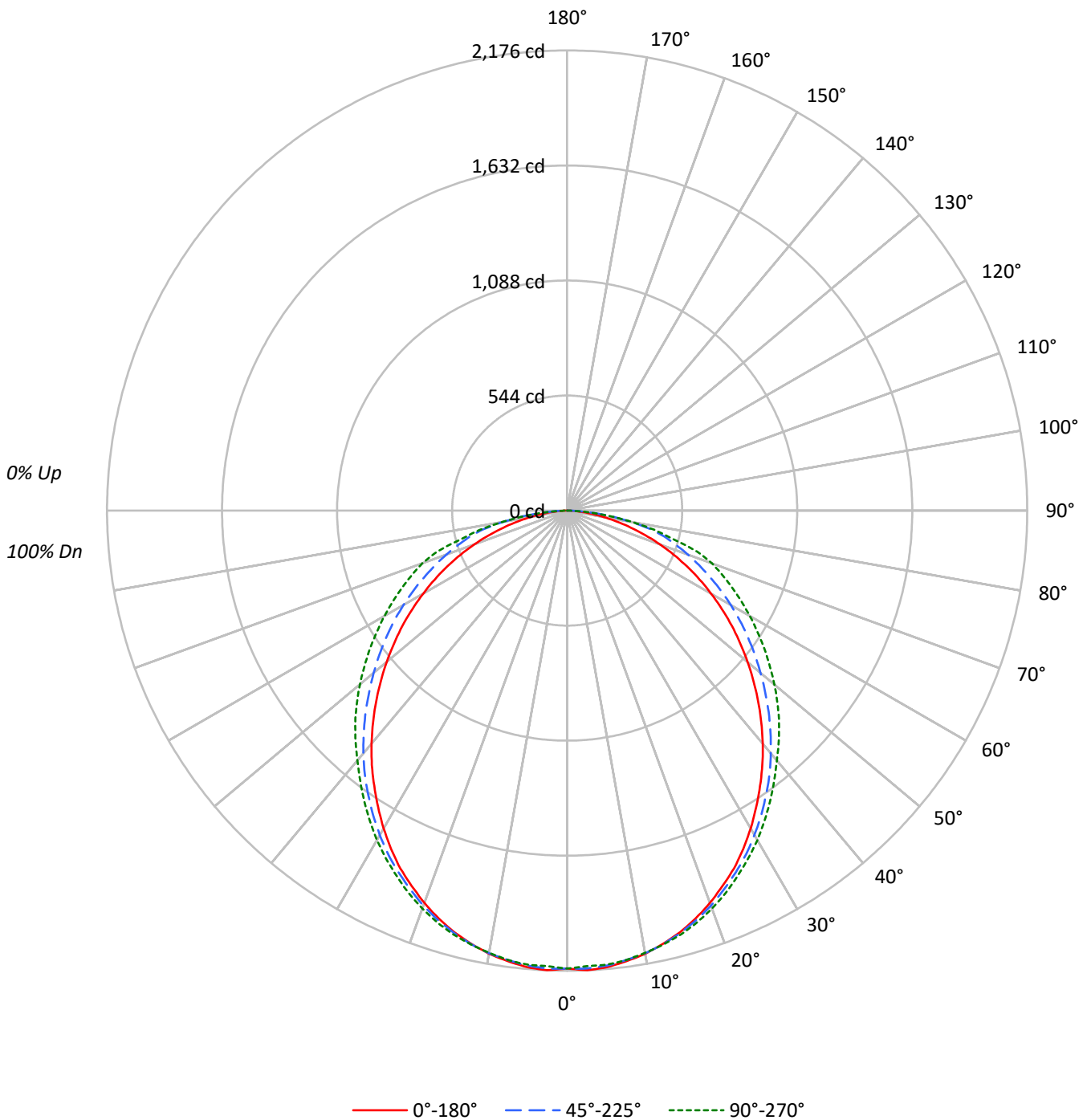
Input Watts (W): 59.747292
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2914	2914	2914
5°	2927	2917	2911
10°	2907	2904	2901
15°	2875	2881	2892
20°	2827	2847	2867
25°	2772	2801	2831
30°	2696	2752	2795
35°	2612	2694	2749
40°	2528	2633	2709
45°	2431	2564	2697
50°	2333	2500	2679
55°	2232	2447	2671
60°	2116	2405	2683
65°	1990	2376	2737
70°	1832	2388	2866
75°	1625	2473	2669
80°	1358	2344	2406
85°	1014	1874	1721



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	3.4
10°-20°	582.3	9.7
20°-30°	867.8	14.5
30°-40°	1021.5	17.1
40°-50°	1038.1	17.4
50°-60°	933.3	15.6
60°-70°	737.3	12.3
70°-80°	467.8	7.8
80°-90°	129.1	2.2
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°	1654.8	27.7
0°-40°	2676.3	44.7
0°-60°	4647.7	77.7
0°-90°	5981.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5981.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2166	2166	2166	2166	2166	
5°	2168	2150	2160	2156	2156	206
15°	2064	2054	2068	2074	2076	581
25°	1867	1865	1887	1899	1907	858
35°	1590	1600	1640	1658	1674	995
45°	1278	1296	1348	1387	1417	986
55°	951	975	1043	1111	1138	850
65°	625	657	746	828	860	619
75°	312	366	476	518	514	333
85°	66	114	121	112	112	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2165.5	2165.5	2165.5	2165.5	2165.5
2.5°	2175.5	2159.6	2167.5	2163.6	2155.6
5°	2167.5	2149.6	2159.6	2155.6	2155.6
7.5°	2149.6	2135.7	2143.6	2141.7	2143.6
10°	2127.7	2113.8	2125.7	2125.7	2123.7
12.5°	2097.9	2085.9	2099.9	2099.9	2101.8
15°	2064.0	2054.1	2068.0	2074.0	2076.0
17.5°	2022.2	2012.3	2030.2	2036.2	2042.1
20°	1974.5	1970.5	1988.4	1994.4	2002.3
22.5°	1920.7	1920.7	1938.6	1946.6	1958.5
25°	1867.0	1865.0	1886.9	1898.8	1906.8
27.5°	1803.3	1805.3	1833.1	1845.1	1855.0
30°	1735.6	1739.6	1771.4	1785.4	1799.3
32.5°	1664.0	1671.9	1707.8	1723.7	1737.6
35°	1590.3	1600.3	1640.1	1658.0	1673.9
37.5°	1516.7	1530.6	1572.4	1590.3	1608.2
40°	1439.1	1451.0	1498.8	1520.7	1542.6
42.5°	1359.4	1375.4	1423.1	1455.0	1480.8
45°	1277.8	1295.7	1347.5	1387.3	1417.2
47.5°	1196.2	1220.1	1269.9	1323.6	1349.5
50°	1114.6	1138.5	1194.2	1253.9	1279.8
52.5°	1031.0	1054.9	1118.6	1180.3	1208.2
55°	951.4	975.3	1043.0	1110.6	1138.5
57.5°	867.8	893.7	969.3	1039.0	1066.8
60°	786.2	812.1	893.7	967.3	997.2
62.5°	706.6	734.5	820.0	897.7	927.5
65°	625.0	656.8	746.4	828.0	859.8
67.5°	545.4	581.2	674.7	760.3	794.2
70°	465.8	507.5	607.1	694.6	728.5
72.5°	388.1	433.9	539.4	627.0	644.9
75°	312.5	366.2	475.7	517.5	513.5
77.5°	240.8	300.5	404.0	412.0	424.0
80°	175.2	240.8	302.5	318.5	310.5
82.5°	115.4	181.1	217.0	209.0	207.0
85°	65.7	113.5	121.4	111.5	111.5
87.5°	27.9	45.8	39.8	29.9	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)