

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: P260827

Luminaire Tested: **24CZ-LD5-45SE-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-45SE-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4737.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

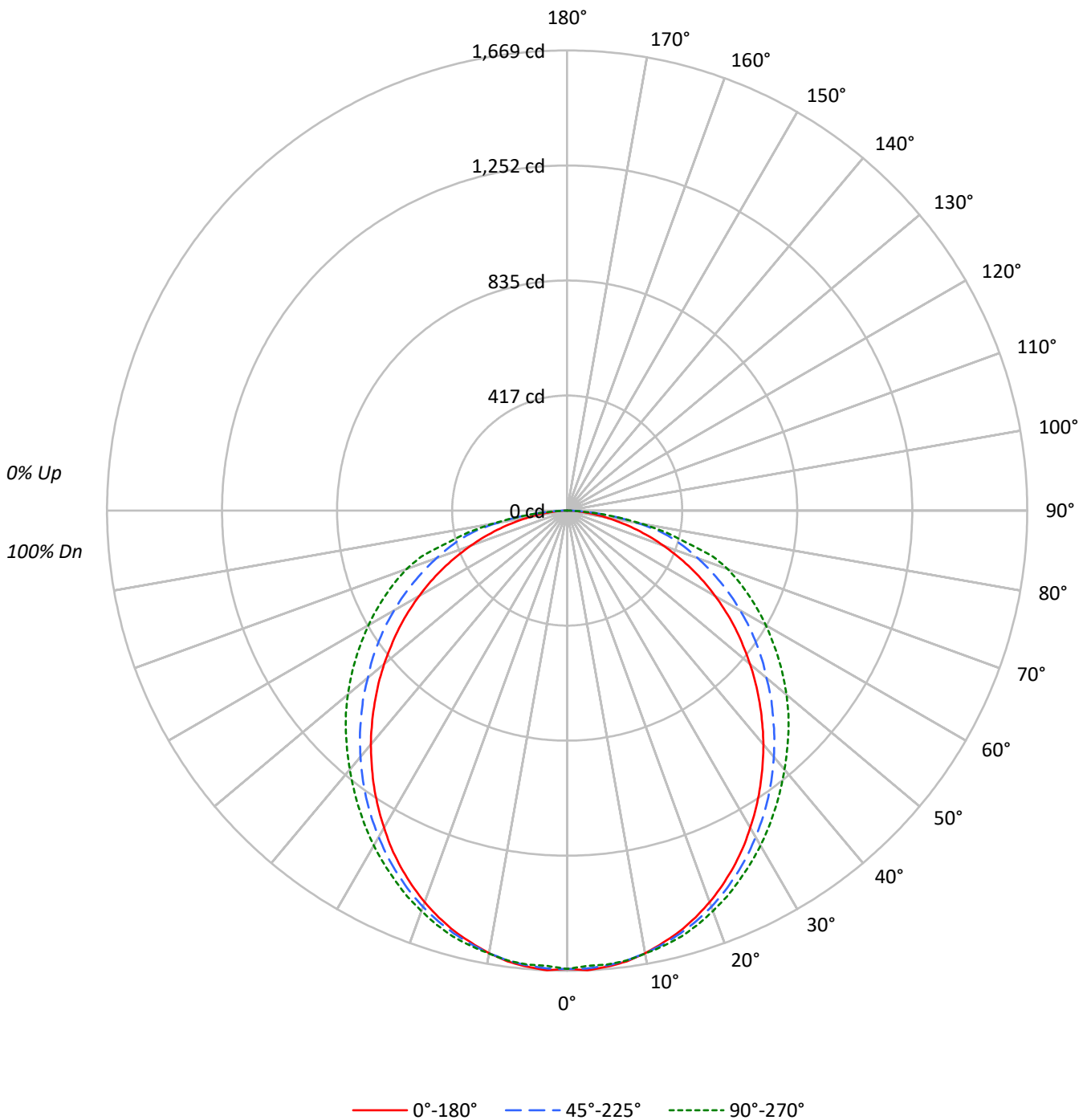
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2237	2237	2237
5°	2243	2237	2232
10°	2227	2227	2229
15°	2200	2212	2228
20°	2164	2190	2213
25°	2119	2160	2196
30°	2064	2124	2180
35°	2006	2089	2163
40°	1946	2048	2154
45°	1879	2009	2160
50°	1813	1976	2173
55°	1746	1963	2195
60°	1667	1951	2239
65°	1580	1952	2313
70°	1461	1984	2437
75°	1307	2074	2319
80°	1093	1986	2124
85°	826	1527	1453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.1	3.3
10°-20°	447.1	9.4
20°-30°	668.4	14.1
30°-40°	792.9	16.7
40°-50°	816.1	17.2
50°-60°	748.7	15.8
60°-70°	605.4	12.8
70°-80°	392.9	8.3
80°-90°	108.3	2.3
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°	1272.6	26.9
0°-40°	2065.6	43.6
0°-60°	3630.4	76.6
0°-90°	4737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4737.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1662	1662	1662	1662	1662	
5°	1661	1650	1656	1654	1653	158
15°	1580	1573	1588	1594	1599	445
25°	1427	1429	1455	1468	1479	657
35°	1221	1231	1272	1299	1317	764
45°	988	1004	1056	1106	1135	762
55°	744	767	837	905	936	665
65°	496	526	613	694	727	490
75°	251	298	399	446	446	267
85°	54	91	99	96	94	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1662.4	1662.4	1662.4	1662.4	1662.4
2.5°	1668.9	1656.0	1662.4	1660.8	1652.7
5°	1660.8	1649.5	1656.0	1654.3	1652.7
7.5°	1649.5	1638.1	1646.2	1644.6	1646.2
10°	1630.0	1620.3	1630.0	1631.6	1631.6
12.5°	1605.7	1597.6	1610.5	1613.8	1617.0
15°	1579.7	1573.2	1587.8	1594.3	1599.2
17.5°	1547.3	1542.4	1560.3	1568.4	1574.9
20°	1511.6	1510.0	1529.4	1537.6	1545.7
22.5°	1471.1	1471.1	1493.8	1503.5	1514.8
25°	1427.3	1428.9	1454.8	1467.8	1479.2
27.5°	1380.2	1381.9	1412.7	1428.9	1441.9
30°	1328.3	1334.8	1367.3	1388.3	1402.9
32.5°	1276.4	1284.5	1320.2	1344.5	1360.8
35°	1221.3	1231.0	1271.6	1299.1	1317.0
37.5°	1164.5	1175.9	1219.7	1250.5	1271.6
40°	1107.8	1120.7	1166.1	1201.8	1226.2
42.5°	1047.7	1062.3	1112.6	1154.8	1180.7
45°	987.7	1004.0	1055.9	1106.1	1135.3
47.5°	927.7	947.2	1002.3	1057.5	1088.3
50°	866.1	885.6	943.9	1007.2	1038.0
52.5°	804.5	827.2	892.0	956.9	987.7
55°	744.4	767.2	836.9	905.0	935.8
57.5°	682.8	705.5	781.8	853.1	883.9
60°	619.6	645.5	725.0	798.0	832.0
62.5°	557.9	585.5	669.8	747.7	780.1
65°	496.3	525.5	613.1	694.2	726.6
67.5°	433.0	467.1	557.9	640.6	674.7
70°	371.4	408.7	504.4	587.1	619.6
72.5°	311.4	352.0	450.9	535.2	554.7
75°	251.4	298.4	399.0	446.0	446.0
77.5°	194.6	246.5	340.6	358.4	368.2
80°	141.1	197.9	256.3	277.3	274.1
82.5°	94.1	150.8	183.3	183.3	178.4
85°	53.5	90.8	98.9	95.7	94.1
87.5°	22.7	34.1	30.8	24.3	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)