

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: P261380

Luminaire Tested: **24CZ-LD5-45SE-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261380
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-LD5-45SE-S-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4339.0 lumens
Efficiency: N/A
Efficacy: 120.6 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

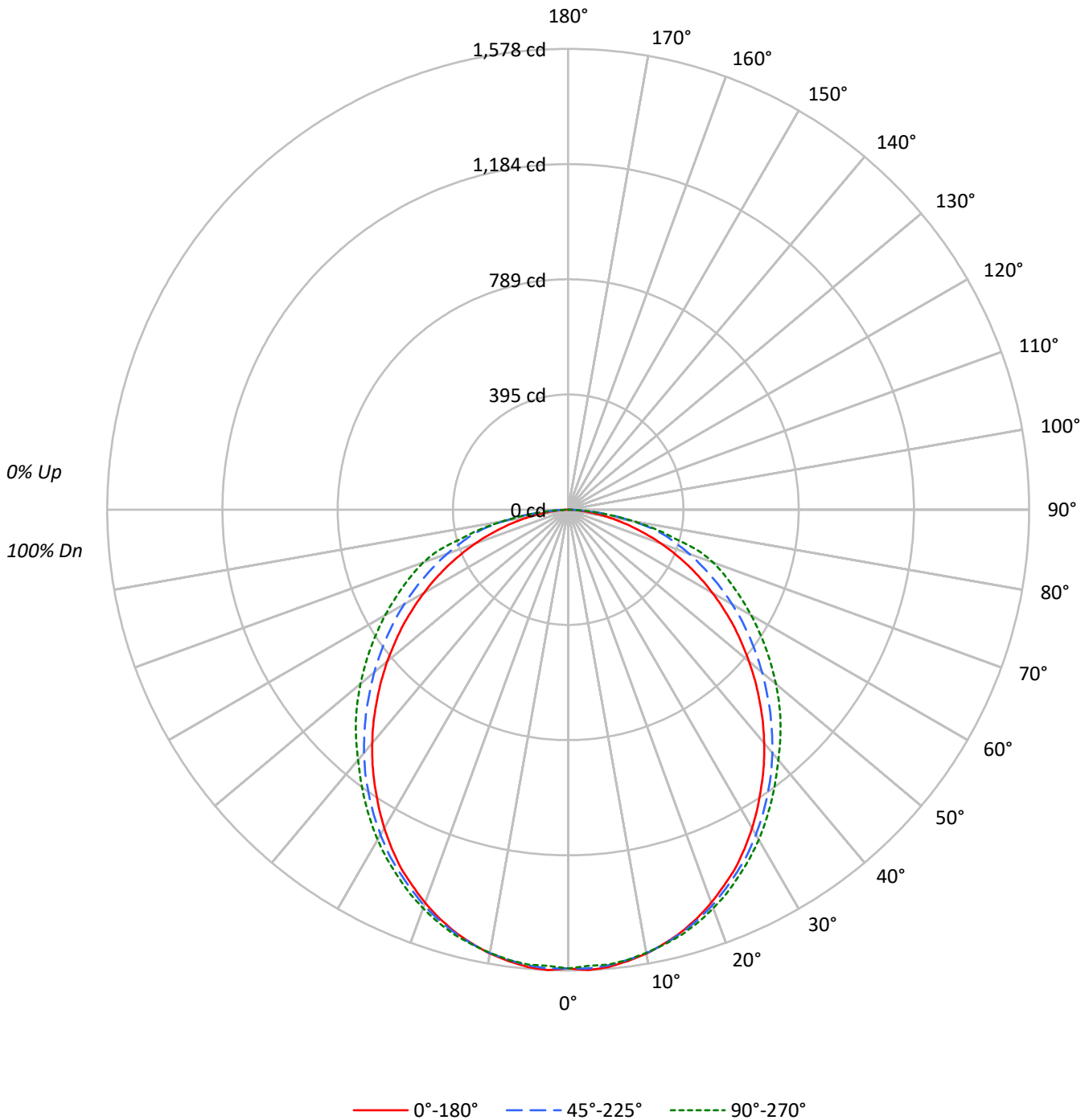
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2113	2113	2113
5°	2123	2116	2112
10°	2109	2107	2105
15°	2086	2090	2098
20°	2051	2065	2080
25°	2010	2032	2053
30°	1956	1996	2028
35°	1895	1954	1994
40°	1833	1909	1965
45°	1764	1860	1956
50°	1692	1813	1943
55°	1619	1775	1937
60°	1535	1744	1946
65°	1443	1724	1986
70°	1329	1732	2079
75°	1179	1794	1936
80°	984	1700	1745
85°	735	1360	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	3.4
10°-20°	422.4	9.7
20°-30°	629.4	14.5
30°-40°	740.9	17.1
40°-50°	753.0	17.4
50°-60°	677.0	15.6
60°-70°	534.8	12.3
70°-80°	339.3	7.8
80°-90°	93.6	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°	1200.3	27.7
0°-40°	1941.3	44.7
0°-60°	3371.2	77.7
0°-90°	4339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1571	1571	1571	1571	1571	
5°	1572	1559	1566	1564	1564	149
15°	1497	1490	1500	1504	1506	422
25°	1354	1353	1369	1377	1383	623
35°	1154	1161	1190	1203	1214	722
45°	927	940	977	1006	1028	715
55°	690	707	756	806	826	616
65°	453	476	541	601	624	449
75°	227	266	345	375	372	241
85°	48	82	88	81	81	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1570.8	1570.8	1570.8	1570.8	1570.8
2.5°	1578.0	1566.5	1572.2	1569.4	1563.6
5°	1572.2	1559.2	1566.5	1563.6	1563.6
7.5°	1559.2	1549.1	1554.9	1553.5	1554.9
10°	1543.4	1533.3	1541.9	1541.9	1540.5
12.5°	1521.7	1513.0	1523.2	1523.2	1524.6
15°	1497.2	1489.9	1500.1	1504.4	1505.8
17.5°	1466.8	1459.6	1472.6	1477.0	1481.3
20°	1432.2	1429.3	1442.3	1446.6	1452.4
22.5°	1393.2	1393.2	1406.2	1412.0	1420.6
25°	1354.2	1352.8	1368.7	1377.3	1383.1
27.5°	1308.0	1309.5	1329.7	1338.4	1345.6
30°	1258.9	1261.8	1284.9	1295.0	1305.1
32.5°	1207.0	1212.7	1238.7	1250.3	1260.4
35°	1153.6	1160.8	1189.6	1202.6	1214.2
37.5°	1100.1	1110.2	1140.6	1153.6	1166.5
40°	1043.8	1052.5	1087.1	1103.0	1118.9
42.5°	986.1	997.6	1032.3	1055.4	1074.1
45°	926.9	939.9	977.4	1006.3	1027.9
47.5°	867.7	885.0	921.1	960.1	978.9
50°	808.5	825.8	866.2	909.6	928.3
52.5°	747.9	765.2	811.4	856.1	876.4
55°	690.1	707.4	756.5	805.6	825.8
57.5°	629.5	648.2	703.1	753.6	773.8
60°	570.3	589.0	648.2	701.7	723.3
62.5°	512.5	532.7	594.8	651.1	672.8
65°	453.3	476.4	541.4	600.6	623.7
67.5°	395.6	421.6	489.4	551.5	576.1
70°	337.8	368.2	440.3	503.9	528.4
72.5°	281.5	314.7	391.3	454.8	467.8
75°	226.7	265.6	345.1	375.4	372.5
77.5°	174.7	218.0	293.1	298.9	307.5
80°	127.0	174.7	219.4	231.0	225.2
82.5°	83.7	131.4	157.4	151.6	150.1
85°	47.6	82.3	88.1	80.8	80.8
87.5°	20.2	33.2	28.9	21.7	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)