

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: P261287

Luminaire Tested: **24CZ-LD5-45-S-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261287
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-LD5-45-S-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4040.0 lumens
Efficiency: N/A
Efficacy: 127.0 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

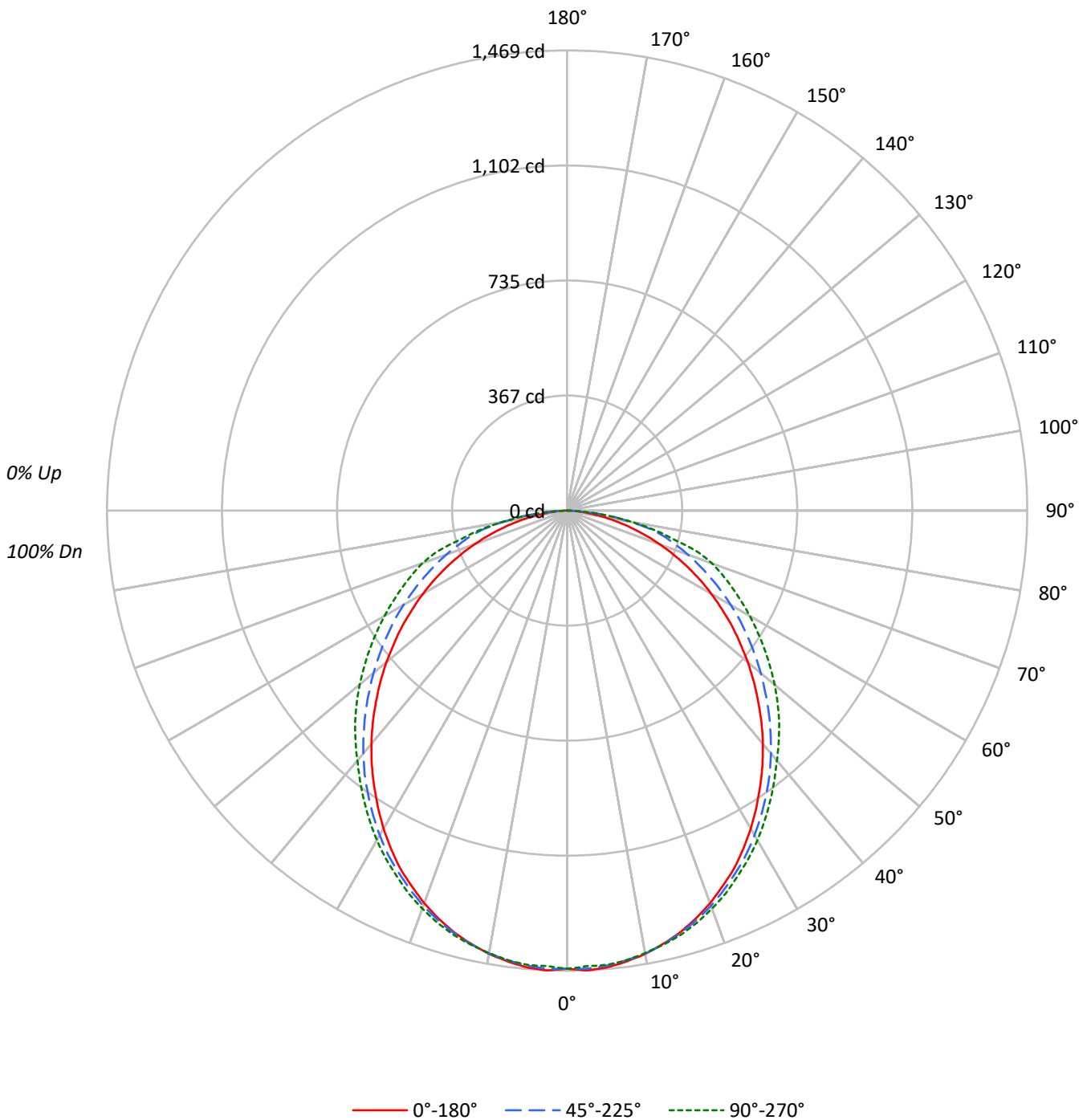
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1968	1968	1968
5°	1977	1970	1966
10°	1963	1962	1960
15°	1942	1946	1953
20°	1909	1923	1936
25°	1872	1892	1912
30°	1821	1859	1888
35°	1764	1819	1857
40°	1707	1778	1830
45°	1642	1732	1821
50°	1576	1688	1809
55°	1507	1652	1804
60°	1429	1624	1812
65°	1344	1605	1849
70°	1238	1613	1936
75°	1097	1670	1803
80°	917	1583	1625
85°	685	1266	1162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	3.4
10°-20°	393.3	9.7
20°-30°	586.1	14.5
30°-40°	689.9	17.1
40°-50°	701.1	17.4
50°-60°	630.3	15.6
60°-70°	498.0	12.3
70°-80°	315.9	7.8
80°-90°	87.2	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°	1117.6	27.7
0°-40°	1807.5	44.7
0°-60°	3138.9	77.7
0°-90°	4040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1464	1452	1458	1456	1456	139
15°	1394	1387	1397	1401	1402	393
25°	1261	1260	1274	1282	1288	580
35°	1074	1081	1108	1120	1130	672
45°	863	875	910	937	957	666
55°	643	659	704	750	769	574
65°	422	444	504	559	581	418
75°	211	247	321	350	347	225
85°	44	77	82	75	75	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.6	1462.6	1462.6	1462.6	1462.6
2.5°	1469.3	1458.5	1463.9	1461.2	1455.8
5°	1463.9	1451.8	1458.5	1455.8	1455.8
7.5°	1451.8	1442.4	1447.8	1446.4	1447.8
10°	1437.0	1427.6	1435.7	1435.7	1434.3
12.5°	1416.8	1408.8	1418.2	1418.2	1419.5
15°	1394.0	1387.3	1396.7	1400.7	1402.1
17.5°	1365.8	1359.0	1371.1	1375.2	1379.2
20°	1333.5	1330.8	1342.9	1346.9	1352.3
22.5°	1297.2	1297.2	1309.3	1314.7	1322.8
25°	1260.9	1259.6	1274.4	1282.4	1287.8
27.5°	1217.9	1219.2	1238.1	1246.1	1252.8
30°	1172.2	1174.9	1196.4	1205.8	1215.2
32.5°	1123.8	1129.2	1153.4	1164.1	1173.5
35°	1074.1	1080.8	1107.7	1119.8	1130.5
37.5°	1024.3	1033.7	1062.0	1074.1	1086.2
40°	971.9	980.0	1012.2	1027.0	1041.8
42.5°	918.1	928.9	961.1	982.7	1000.1
45°	863.0	875.1	910.1	936.9	957.1
47.5°	807.9	824.0	857.6	893.9	911.4
50°	752.8	768.9	806.6	846.9	864.4
52.5°	696.3	712.5	755.5	797.1	816.0
55°	642.6	658.7	704.4	750.1	768.9
57.5°	586.1	603.6	654.7	701.7	720.5
60°	531.0	548.5	603.6	653.3	673.5
62.5°	477.2	496.0	553.8	606.3	626.4
65°	422.1	443.6	504.1	559.2	580.7
67.5°	368.3	392.5	455.7	513.5	536.4
70°	314.6	342.8	410.0	469.1	492.0
72.5°	262.1	293.0	364.3	423.4	435.5
75°	211.0	247.3	321.3	349.5	346.8
77.5°	162.7	203.0	272.9	278.3	286.3
80°	118.3	162.7	204.3	215.1	209.7
82.5°	78.0	122.3	146.5	141.1	139.8
85°	44.4	76.6	82.0	75.3	75.3
87.5°	18.8	30.9	26.9	20.2	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)