

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: P#

Luminaire Tested: **24CZ-LD5-40SE-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25689)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40SE-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4434.3 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

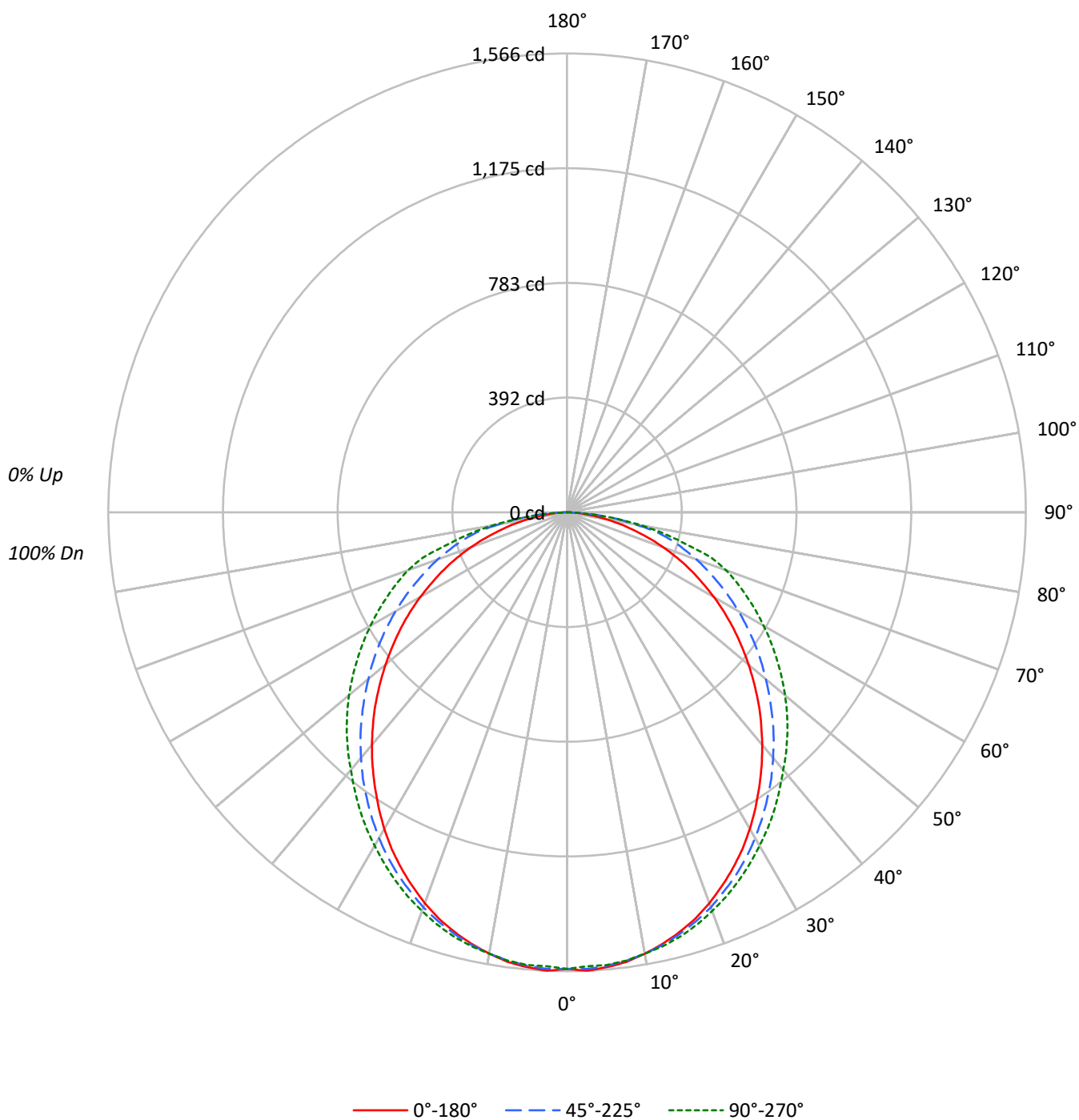
Input Watts (W): 32.55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	93		97	93	90		93	90	88		89	87	85
2	98	90	83	77	96	88	81	76		84	79	74		81	76	72		78	74	71
3	89	79	70	63	87	77	69	63		74	67	62		71	65	61		69	64	60
4	82	69	60	54	79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	51	42	35	63	50	41	35		48	41	35		47	40	35		45	39	35
8	60	46	38	32	58	45	37	32		44	37	31		43	36	31		42	36	31
9	56	42	34	28	55	42	34	28		41	33	28		40	33	28		39	32	28
10	52	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2097	2097	2097
5°	2100	2089	2085
10°	2081	2070	2072
15°	2052	2045	2059
20°	2014	2015	2036
25°	1966	1978	2011
30°	1911	1935	1984
35°	1846	1887	1961
40°	1783	1839	1935
45°	1717	1791	1927
50°	1644	1743	1919
55°	1572	1704	1912
60°	1494	1666	1920
65°	1404	1630	1943
70°	1288	1611	1998
75°	1126	1604	1837
80°	922	1411	1557
85°	634	913	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	3.3
10°-20°	419.4	9.5
20°-30°	627.0	14.1
30°-40°	743.4	16.8
40°-50°	764.5	17.2
50°-60°	699.3	15.8
60°-70°	564.0	12.7
70°-80°	366.2	8.3
80°-90°	103.0	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°	1193.7	26.9
0°-40°	1937.2	43.7
0°-60°	3401.1	76.7
0°-90°	4434.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4434.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1558	1548	1554	1551	1551	148
15°	1483	1475	1489	1495	1498	418
25°	1340	1340	1365	1376	1386	617
35°	1143	1154	1192	1216	1236	715
45°	925	941	991	1036	1064	713
55°	694	716	781	843	873	621
65°	465	492	570	644	676	459
75°	237	281	370	415	419	252
85°	53	88	95	94	90	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1558.3	1558.3	1558.3	1558.3	1558.3
2.5°	1565.8	1553.7	1559.8	1556.8	1550.7
5°	1558.3	1547.7	1553.7	1550.7	1550.7
7.5°	1547.7	1537.2	1543.2	1543.2	1543.2
10°	1529.6	1520.6	1529.6	1529.6	1529.6
12.5°	1508.5	1500.9	1511.5	1513.0	1516.0
15°	1482.8	1475.3	1488.9	1494.9	1497.9
17.5°	1454.2	1448.1	1463.2	1470.8	1475.3
20°	1419.5	1415.0	1434.6	1442.1	1448.1
22.5°	1380.3	1380.3	1399.9	1408.9	1419.5
25°	1339.5	1339.5	1365.2	1375.7	1386.3
27.5°	1295.8	1297.3	1326.0	1341.0	1351.6
30°	1247.5	1253.6	1283.7	1301.8	1313.9
32.5°	1196.2	1203.8	1238.5	1261.1	1276.2
35°	1143.4	1154.0	1191.7	1215.8	1235.5
37.5°	1090.6	1104.2	1144.9	1172.1	1191.7
40°	1036.3	1051.4	1093.7	1125.3	1148.0
42.5°	980.5	997.1	1043.9	1080.1	1107.2
45°	924.7	941.3	991.1	1036.3	1063.5
47.5°	865.9	885.5	938.3	991.1	1018.2
50°	808.6	829.7	885.5	942.8	971.5
52.5°	751.2	775.4	834.2	894.5	923.2
55°	693.9	716.5	781.4	843.2	873.4
57.5°	636.6	660.7	728.6	793.5	825.1
60°	579.3	604.9	675.8	743.7	775.4
62.5°	520.4	547.6	623.0	693.9	725.6
65°	464.6	491.8	570.2	644.1	675.8
67.5°	407.3	437.5	518.9	594.3	627.5
70°	350.0	383.2	469.1	544.6	577.8
72.5°	292.6	330.4	417.9	493.3	517.4
75°	236.8	280.6	369.6	414.8	419.4
77.5°	185.5	230.8	315.3	333.4	342.4
80°	135.8	185.5	236.8	259.5	258.0
82.5°	90.5	141.8	170.5	173.5	170.5
85°	52.8	87.5	95.0	93.5	90.5
87.5°	22.6	34.7	30.2	25.6	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)