

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: P263293

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-65-SQP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4523.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

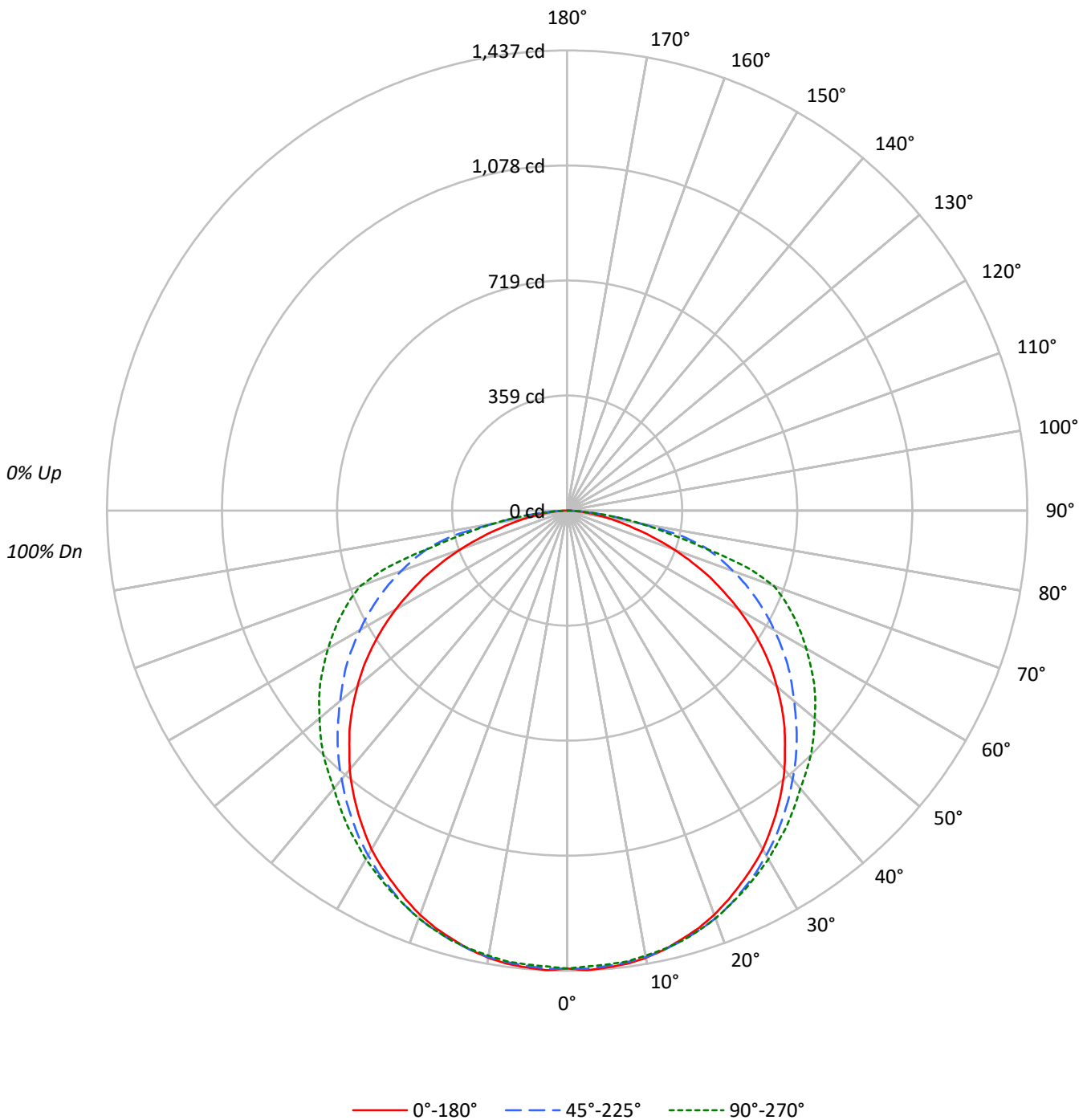
Input Watts (W): 51.057
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1924	1924	1924
5°	1934	1928	1922
10°	1937	1934	1928
15°	1930	1936	1936
20°	1924	1940	1940
25°	1908	1935	1942
30°	1898	1931	1953
35°	1876	1926	1969
40°	1855	1925	1990
45°	1827	1929	2049
50°	1790	1937	2113
55°	1743	1973	2209
60°	1666	2012	2320
65°	1562	2075	2484
70°	1397	2169	2702
75°	1154	2320	2235
80°	941	1792	1810
85°	758	1190	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	3.0
10°-20°	391.8	8.7
20°-30°	598.9	13.2
30°-40°	732.5	16.2
40°-50°	783.7	17.3
50°-60°	750.5	16.6
60°-70°	634.8	14.0
70°-80°	402.4	8.9
80°-90°	92.6	2.0
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°	1126.5	24.9
0°-40°	1859.0	41.1
0°-60°	3393.2	75.0
0°-90°	4523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1432	1425	1428	1425	1423	136
15°	1385	1383	1390	1390	1390	391
25°	1285	1285	1304	1308	1308	593
35°	1142	1150	1173	1189	1198	715
45°	960	977	1014	1056	1077	740
55°	743	766	841	911	942	663
65°	491	537	652	741	780	483
75°	222	313	446	444	430	241
85°	49	75	77	70	72	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1429.8	1429.8	1429.8	1429.8	1429.8
2.5°	1436.8	1429.8	1432.1	1429.8	1425.1
5°	1432.1	1425.1	1427.5	1425.1	1422.8
7.5°	1427.5	1420.5	1422.8	1420.5	1420.5
10°	1418.1	1411.1	1415.8	1413.5	1411.1
12.5°	1404.1	1399.4	1404.1	1401.8	1401.8
15°	1385.4	1383.1	1390.1	1390.1	1390.1
17.5°	1366.7	1364.4	1373.7	1373.7	1373.7
20°	1343.4	1341.0	1355.0	1355.0	1355.0
22.5°	1315.3	1313.0	1331.7	1331.7	1331.7
25°	1285.0	1285.0	1303.6	1308.3	1308.3
27.5°	1254.6	1254.6	1275.6	1282.6	1282.6
30°	1221.9	1221.9	1242.9	1252.2	1256.9
32.5°	1182.2	1186.8	1210.2	1221.9	1226.5
35°	1142.4	1149.5	1172.8	1189.2	1198.5
37.5°	1100.4	1107.4	1135.4	1154.1	1165.8
40°	1056.0	1065.3	1095.7	1119.1	1133.1
42.5°	1006.9	1021.0	1056.0	1086.4	1105.1
45°	960.2	976.6	1013.9	1056.0	1077.0
47.5°	908.8	927.5	969.6	1023.3	1044.3
50°	855.1	873.8	925.2	985.9	1009.3
52.5°	801.3	822.4	883.1	948.5	976.6
55°	742.9	766.3	841.1	911.2	941.5
57.5°	682.2	710.2	794.3	869.1	901.8
60°	619.1	654.2	747.6	827.0	862.1
62.5°	553.7	595.8	700.9	785.0	822.4
65°	490.6	537.3	651.8	740.6	780.3
67.5°	422.9	481.3	602.8	698.5	735.9
70°	355.1	422.9	551.4	649.5	686.9
72.5°	287.4	369.1	500.0	588.7	588.7
75°	221.9	313.1	446.2	443.9	429.9
77.5°	168.2	261.7	366.8	313.1	315.4
80°	121.5	210.3	231.3	231.3	233.6
82.5°	81.8	161.2	149.5	147.2	151.9
85°	49.1	74.8	77.1	70.1	72.4
87.5°	23.4	25.7	21.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)