

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: P263712

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4736.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

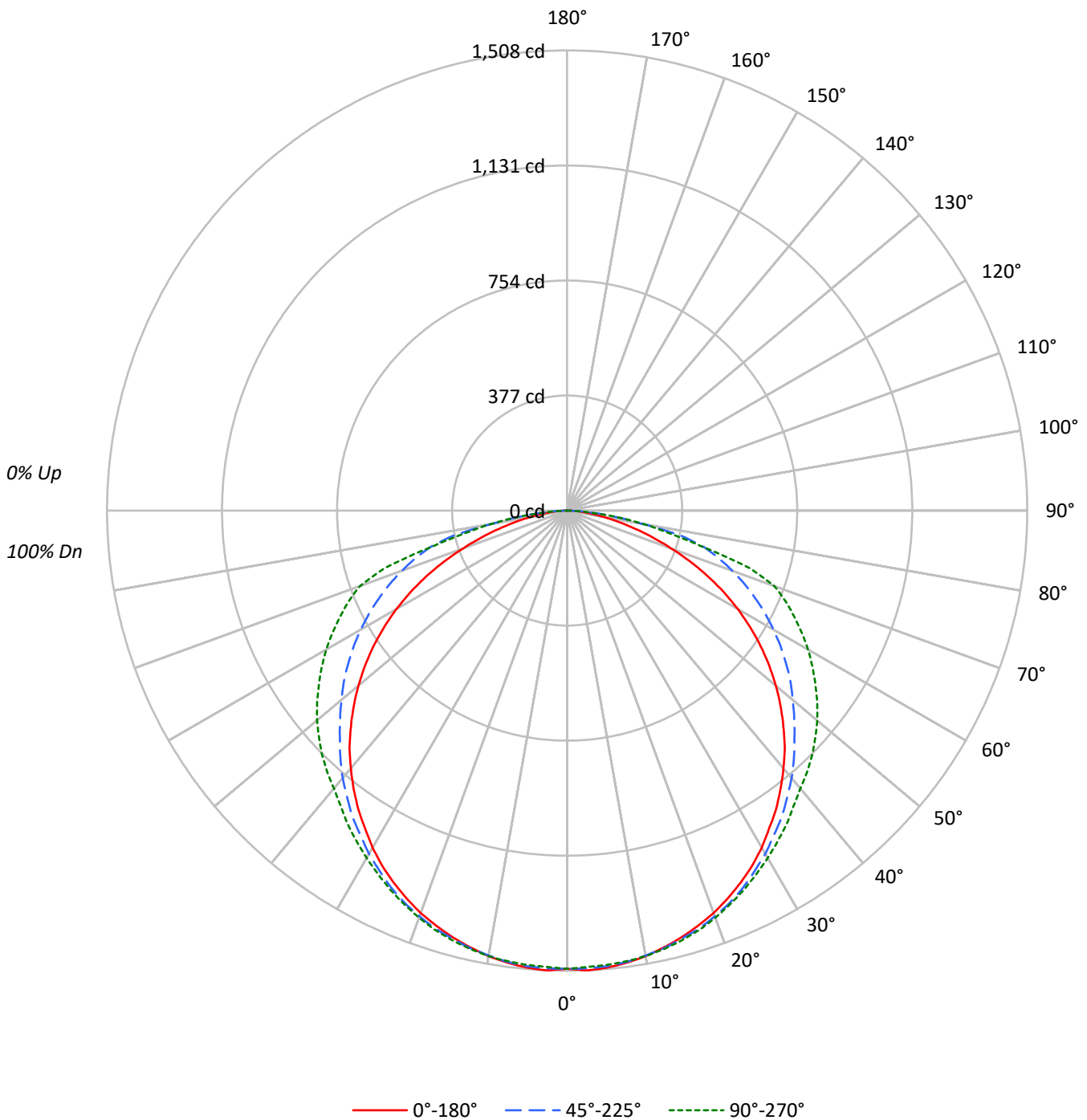
Input Watts (W): 50.313
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	2020	2020	2020
5°	2031	2025	2018
10°	2026	2023	2026
15°	2017	2023	2030
20°	2009	2026	2033
25°	1997	2025	2035
30°	1981	2017	2043
35°	1961	2014	2060
40°	1937	2011	2088
45°	1908	2005	2160
50°	1869	2020	2240
55°	1816	2056	2330
60°	1738	2102	2453
65°	1618	2167	2613
70°	1431	2265	2843
75°	1200	2424	2388
80°	958	1915	1987
85°	756	1295	1187



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.0
10°-20°	409.8	8.7
20°-30°	626.0	13.2
30°-40°	765.3	16.2
40°-50°	819.1	17.3
50°-60°	785.7	16.6
60°-70°	663.4	14.0
70°-80°	424.0	9.0
80°-90°	100.3	2.1
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°	1178.2	24.9
0°-40°	1943.5	41.0
0°-60°	3548.3	74.9
0°-90°	4736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1504	1494	1499	1497	1494	143
15°	1448	1443	1452	1457	1457	409
25°	1345	1343	1364	1368	1371	620
35°	1194	1203	1226	1243	1254	746
45°	1002	1019	1054	1103	1135	773
55°	774	800	877	956	993	691
65°	508	557	681	776	821	501
75°	231	329	466	476	459	248
85°	49	82	84	82	77	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1501.4	1501.4	1501.4	1501.4	1501.4
2.5°	1508.3	1499.0	1501.4	1501.4	1496.7
5°	1503.7	1494.4	1499.0	1496.7	1494.4
7.5°	1494.4	1487.4	1492.0	1492.0	1489.7
10°	1482.7	1475.7	1480.4	1482.7	1482.7
12.5°	1466.4	1461.7	1468.7	1468.7	1471.0
15°	1447.7	1443.1	1452.4	1457.1	1457.1
17.5°	1426.8	1424.4	1436.1	1438.4	1440.7
20°	1403.4	1401.1	1415.1	1415.1	1419.8
22.5°	1375.5	1373.1	1391.8	1391.8	1396.4
25°	1345.2	1342.8	1363.8	1368.5	1370.8
27.5°	1312.5	1310.2	1331.2	1338.2	1342.8
30°	1275.2	1275.2	1298.5	1307.9	1314.8
32.5°	1233.3	1240.2	1261.2	1275.2	1284.5
35°	1193.6	1202.9	1226.3	1242.6	1254.2
37.5°	1149.3	1158.7	1184.3	1205.3	1219.3
40°	1102.7	1114.4	1144.7	1168.0	1189.0
42.5°	1056.1	1067.7	1100.4	1135.3	1163.3
45°	1002.5	1018.8	1053.7	1102.7	1135.3
47.5°	948.8	965.2	1009.4	1070.1	1102.7
50°	892.9	911.5	965.2	1035.1	1070.1
52.5°	834.6	855.6	923.2	997.8	1032.8
55°	774.0	799.6	876.6	955.8	993.1
57.5°	711.0	739.0	829.9	913.9	953.5
60°	645.8	680.7	781.0	869.6	911.5
62.5°	578.2	620.1	732.0	822.9	867.2
65°	508.2	557.2	680.7	776.3	820.6
67.5°	436.0	501.2	629.4	729.7	774.0
70°	363.7	440.6	575.8	678.4	722.7
72.5°	296.1	384.7	522.2	617.8	627.1
75°	230.8	328.7	466.3	475.6	459.3
77.5°	172.5	272.8	384.7	342.7	340.4
80°	123.6	219.1	247.1	254.1	256.4
82.5°	81.6	165.5	160.9	165.5	163.2
85°	49.0	81.6	83.9	81.6	76.9
87.5°	23.3	30.3	23.3	21.0	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)