

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: P263611

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263611  
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-LD5-70-RDP-UNV-L93050-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4577.0 lumens  
Efficiency: N/A  
Efficacy: 81.9 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

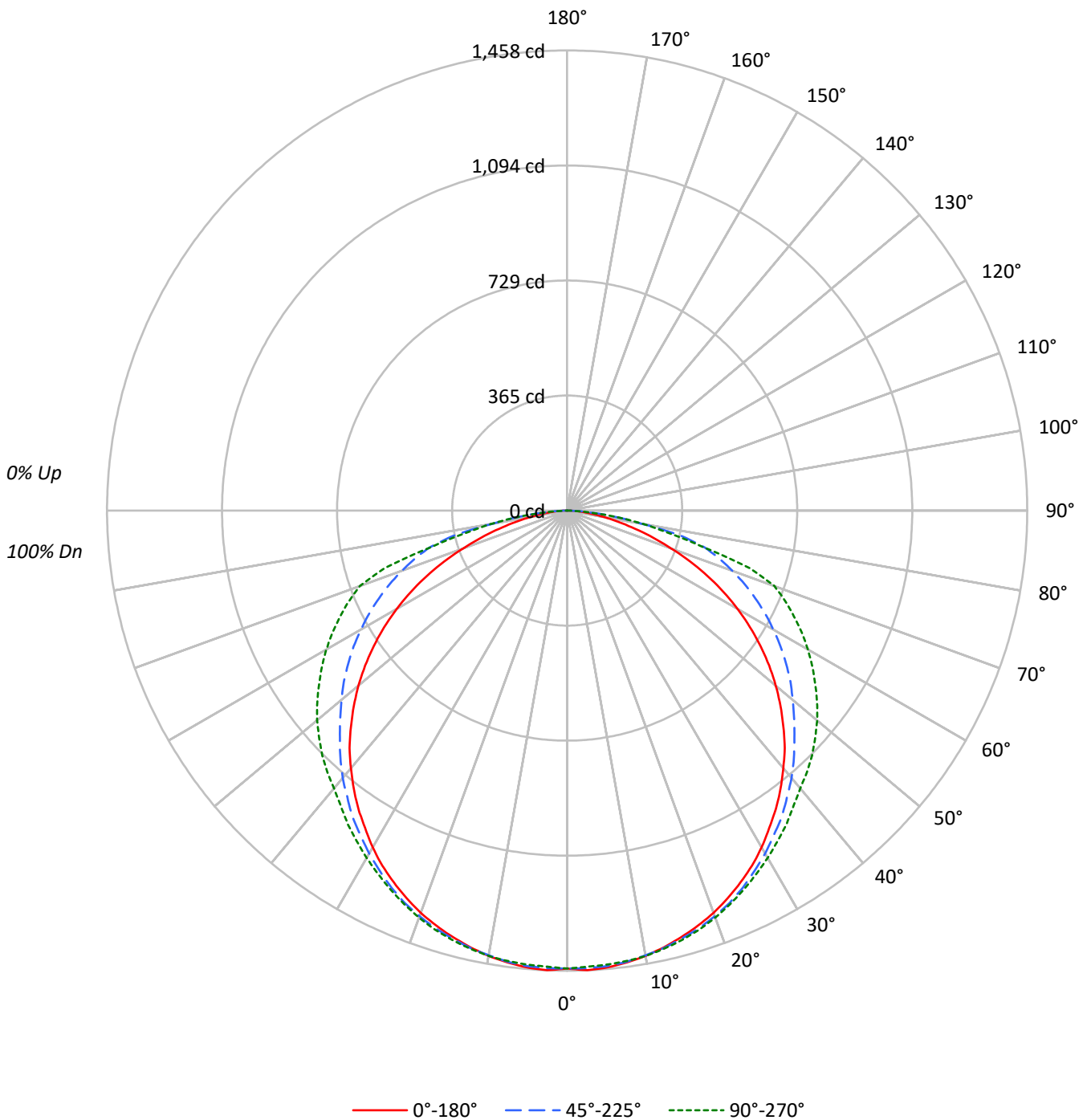
Input Watts (W): 55.914762  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	61	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°	1952	1952	1952
5°	1963	1957	1951
10°	1958	1955	1958
15°	1949	1955	1961
20°	1942	1958	1965
25°	1930	1957	1967
30°	1915	1950	1974
35°	1895	1947	1991
40°	1872	1943	2018
45°	1843	1938	2088
50°	1806	1953	2165
55°	1755	1987	2251
60°	1679	2031	2370
65°	1564	2095	2525
70°	1383	2189	2747
75°	1160	2342	2307
80°	925	1850	1920
85°	730	1252	1149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.6	3.0
10°-20°	396.1	8.7
20°-30°	604.9	13.2
30°-40°	739.6	16.2
40°-50°	791.6	17.3
50°-60°	759.3	16.6
60°-70°	641.2	14.0
70°-80°	409.8	9.0
80°-90°	96.9	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°	1138.6	24.9
0°-40°	1878.2	41.0
0°-60°	3429.2	74.9
0°-90°	4577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4577.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1453	1444	1449	1446	1444	138
15°	1399	1395	1404	1408	1408	395
25°	1300	1298	1318	1322	1325	599
35°	1154	1163	1185	1201	1212	721
45°	969	985	1018	1066	1097	747
55°	748	773	847	924	960	668
65°	491	538	658	750	793	484
75°	223	318	451	460	444	240
85°	47	79	81	79	74	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1451.0	1451.0	1451.0	1451.0	1451.0
2.5°	1457.7	1448.7	1451.0	1451.0	1446.4
5°	1453.2	1444.2	1448.7	1446.4	1444.2
7.5°	1444.2	1437.4	1441.9	1441.9	1439.7
10°	1432.9	1426.2	1430.7	1432.9	1432.9
12.5°	1417.2	1412.7	1419.4	1419.4	1421.7
15°	1399.1	1394.6	1403.6	1408.1	1408.1
17.5°	1378.9	1376.6	1387.9	1390.1	1392.4
20°	1356.3	1354.1	1367.6	1367.6	1372.1
22.5°	1329.3	1327.0	1345.1	1345.1	1349.6
25°	1300.0	1297.7	1318.0	1322.5	1324.8
27.5°	1268.5	1266.2	1286.5	1293.2	1297.7
30°	1232.4	1232.4	1254.9	1264.0	1270.7
32.5°	1191.9	1198.6	1218.9	1232.4	1241.4
35°	1153.6	1162.6	1185.1	1200.9	1212.1
37.5°	1110.7	1119.8	1144.5	1164.8	1178.3
40°	1065.7	1076.9	1106.2	1128.8	1149.0
42.5°	1020.6	1031.9	1063.4	1097.2	1124.3
45°	968.8	984.6	1018.4	1065.7	1097.2
47.5°	917.0	932.8	975.6	1034.1	1065.7
50°	862.9	880.9	932.8	1000.3	1034.1
52.5°	806.6	826.9	892.2	964.3	998.1
55°	748.0	772.8	847.1	923.7	959.8
57.5°	687.2	714.2	802.1	883.2	921.5
60°	624.1	657.9	754.8	840.4	880.9
62.5°	558.8	599.3	707.5	795.3	838.1
65°	491.2	538.5	657.9	750.3	793.1
67.5°	421.3	484.4	608.3	705.2	748.0
70°	351.5	425.8	556.5	655.6	698.4
72.5°	286.1	371.8	504.7	597.1	606.1
75°	223.1	317.7	450.6	459.6	443.8
77.5°	166.7	263.6	371.8	331.2	328.9
80°	119.4	211.8	238.8	245.6	247.8
82.5°	78.9	160.0	155.5	160.0	157.7
85°	47.3	78.9	81.1	78.9	74.4
87.5°	22.5	29.3	22.5	20.3	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)