

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: P276958

Luminaire Tested: **24CZ2-70HE-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-70HE-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4557.4 lumens
Efficiency: N/A
Efficacy: 83.3 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

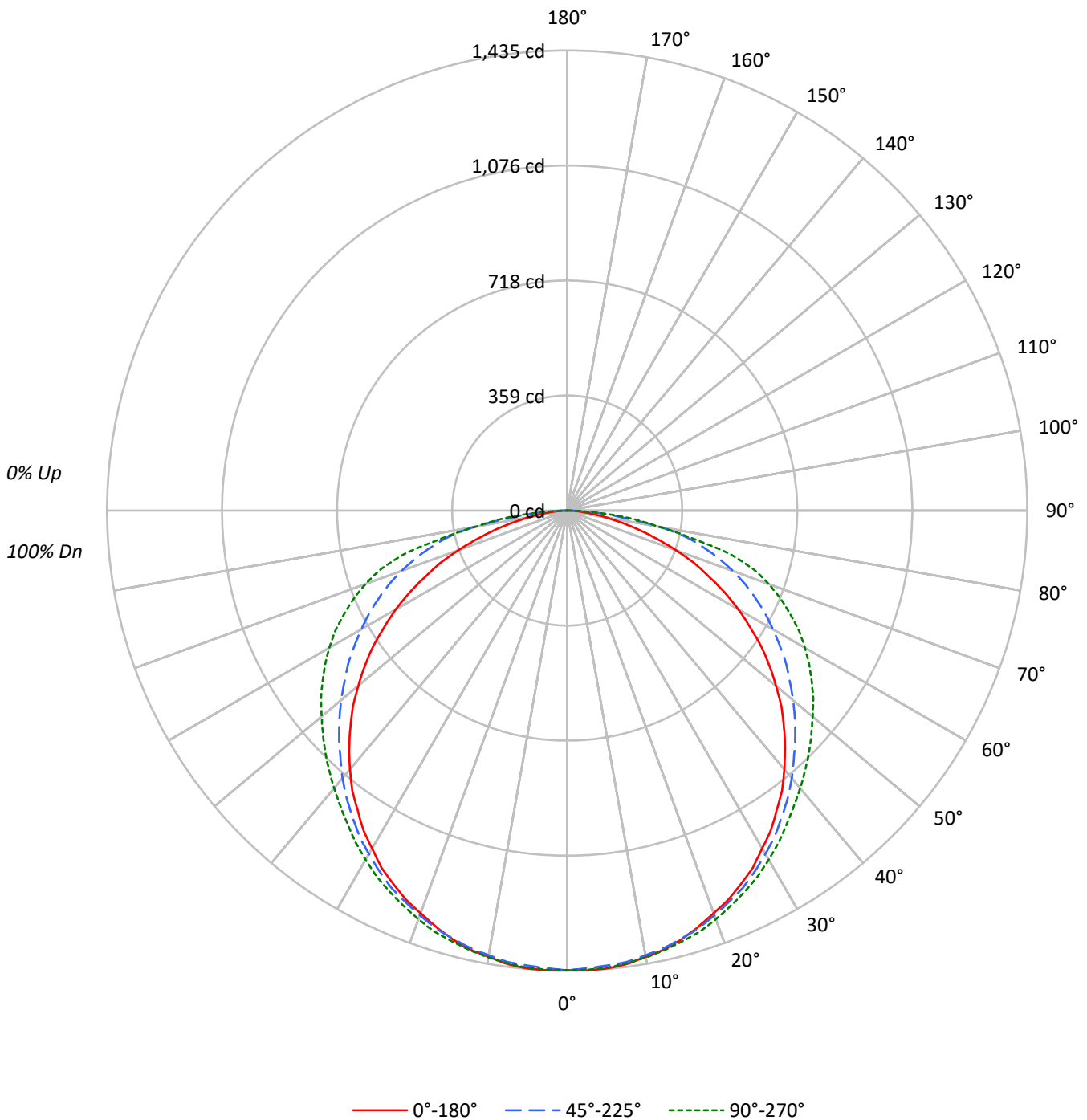
Input Watts (W): 54.684
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1928	1928	1928
5°	1936	1923	1933
10°	1930	1924	1933
15°	1927	1924	1936
20°	1913	1923	1942
25°	1906	1926	1946
30°	1890	1921	1953
35°	1871	1916	1961
40°	1850	1914	1985
45°	1819	1914	2030
50°	1779	1926	2092
55°	1734	1957	2185
60°	1661	1995	2305
65°	1555	2066	2447
70°	1414	2161	2632
75°	1199	2280	2750
80°	946	2294	2225
85°	698	1744	1954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	3.0
10°-20°	391.3	8.6
20°-30°	598.3	13.1
30°-40°	731.4	16.0
40°-50°	779.6	17.1
50°-60°	745.4	16.4
60°-70°	631.4	13.9
70°-80°	424.4	9.3
80°-90°	119.7	2.6
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°	1125.5	24.7
0°-40°	1857.0	40.7
0°-60°	3381.9	74.2
0°-90°	4557.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4557.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1433	1431	1424	1431	1431	136
15°	1383	1383	1381	1392	1390	390
25°	1284	1288	1298	1309	1311	592
35°	1139	1148	1166	1189	1194	714
45°	956	972	1006	1049	1067	738
55°	739	766	834	900	931	658
65°	488	538	649	735	769	485
75°	231	314	438	513	529	247
85°	45	93	113	122	127	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.2	1433.2	1433.2	1433.2	1433.2
2.5°	1435.4	1435.4	1428.7	1433.2	1433.2
5°	1433.2	1430.9	1424.1	1430.9	1430.9
7.5°	1426.4	1424.1	1419.6	1426.4	1424.1
10°	1412.8	1412.8	1408.3	1415.1	1415.1
12.5°	1401.5	1399.3	1397.0	1406.1	1403.8
15°	1383.4	1383.4	1381.2	1392.5	1390.2
17.5°	1360.8	1363.1	1365.4	1374.4	1376.7
20°	1336.0	1340.5	1342.8	1356.3	1356.3
22.5°	1313.4	1315.6	1320.2	1333.7	1333.7
25°	1284.0	1288.5	1297.5	1308.8	1311.1
27.5°	1254.6	1256.9	1268.2	1284.0	1286.2
30°	1216.2	1222.9	1236.5	1254.6	1256.9
32.5°	1182.3	1189.0	1204.9	1222.9	1227.5
35°	1139.3	1148.4	1166.4	1189.0	1193.6
37.5°	1100.9	1107.7	1130.3	1155.1	1161.9
40°	1053.4	1067.0	1089.6	1119.0	1130.3
42.5°	1005.9	1019.5	1046.6	1085.1	1098.6
45°	956.2	972.0	1005.9	1048.9	1067.0
47.5°	906.5	924.6	963.0	1012.7	1033.1
50°	850.0	872.6	920.0	976.6	999.2
52.5°	795.7	822.8	874.8	938.1	967.5
55°	739.2	766.3	834.1	899.7	931.3
57.5°	675.9	712.1	786.7	861.3	895.2
60°	617.1	651.0	741.5	822.8	856.7
62.5°	553.8	599.0	696.2	782.1	816.1
65°	488.3	538.0	648.8	734.7	768.6
67.5°	429.5	483.8	601.3	687.2	721.1
70°	359.4	427.2	549.3	635.2	669.1
72.5°	293.9	368.5	495.1	578.7	610.3
75°	230.6	314.2	438.5	513.1	529.0
77.5°	171.8	260.0	379.8	411.4	400.1
80°	122.1	208.0	296.1	280.3	287.1
82.5°	79.1	158.2	183.1	208.0	214.8
85°	45.2	92.7	113.0	122.1	126.6
87.5°	20.3	33.9	45.2	45.2	43.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)