

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: P263291

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263291
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-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4499.0 lumens
Efficiency: N/A
Efficacy: 89.4 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

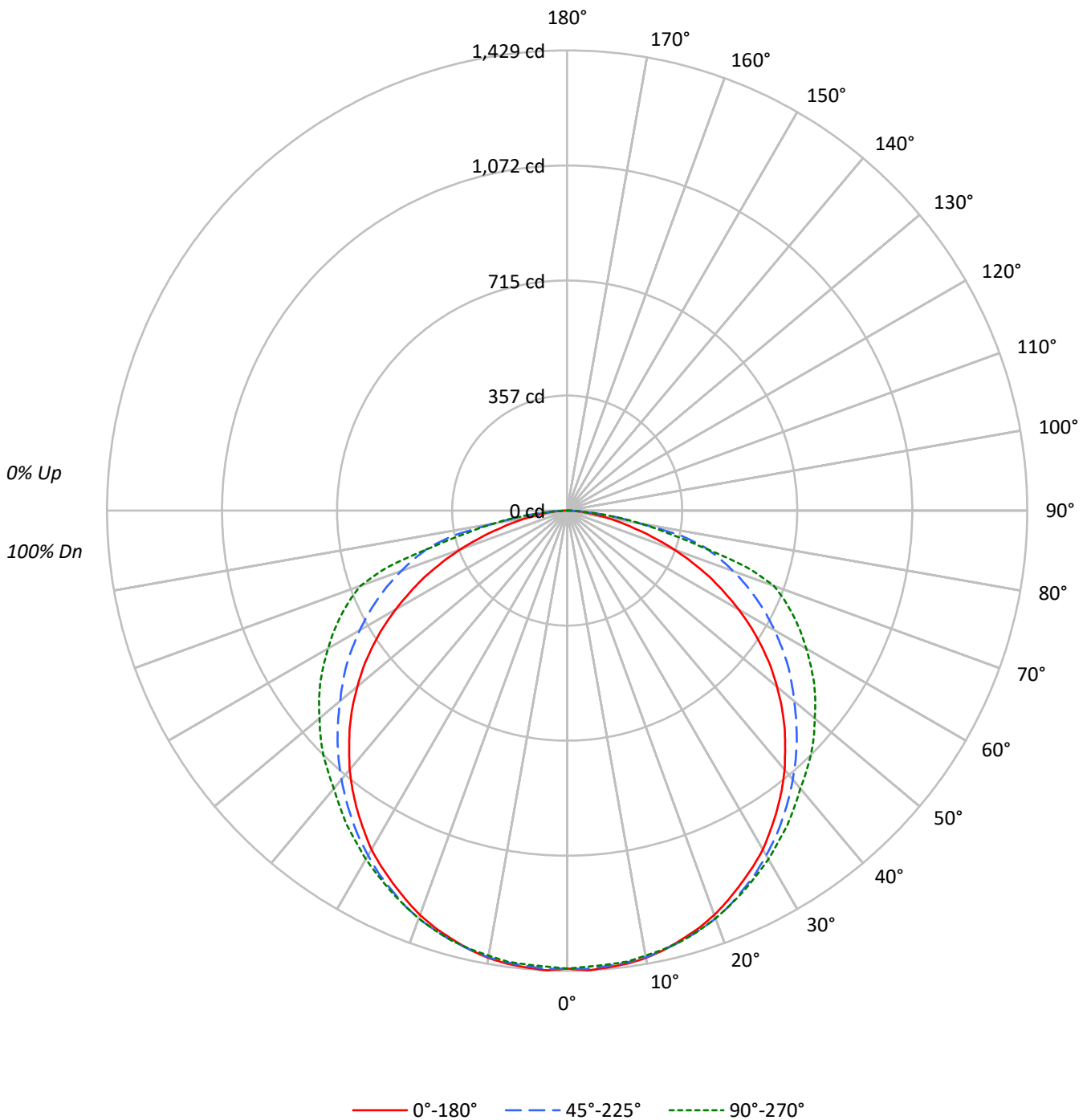
Input Watts (W): 50.313
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1914	1914	1914
5°	1924	1918	1911
10°	1927	1924	1918
15°	1920	1926	1926
20°	1913	1930	1930
25°	1897	1925	1932
30°	1888	1921	1943
35°	1867	1916	1958
40°	1845	1914	1980
45°	1817	1919	2038
50°	1780	1926	2101
55°	1734	1962	2197
60°	1657	2001	2308
65°	1554	2064	2471
70°	1389	2157	2688
75°	1148	2308	2223
80°	936	1783	1801
85°	753	1184	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	3.0
10°-20°	389.8	8.7
20°-30°	595.7	13.2
30°-40°	728.6	16.2
40°-50°	779.6	17.3
50°-60°	746.5	16.6
60°-70°	631.5	14.0
70°-80°	400.3	8.9
80°-90°	92.1	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°	1120.5	24.9
0°-40°	1849.1	41.1
0°-60°	3375.2	75.0
0°-90°	4499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4499.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1422	1422	1422	1422	1422	
5°	1424	1418	1420	1418	1415	136
15°	1378	1376	1383	1383	1383	389
25°	1278	1278	1297	1301	1301	590
35°	1136	1143	1167	1183	1192	711
45°	955	971	1009	1050	1071	736
55°	739	762	837	906	936	659
65°	488	534	648	737	776	481
75°	221	311	444	442	428	240
85°	49	74	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°	1422.2	1422.2	1422.2	1422.2	1422.2
2.5°	1429.2	1422.2	1424.5	1422.2	1417.6
5°	1424.5	1417.6	1419.9	1417.6	1415.2
7.5°	1419.9	1412.9	1415.2	1412.9	1412.9
10°	1410.6	1403.6	1408.3	1406.0	1403.6
12.5°	1396.7	1392.0	1396.7	1394.3	1394.3
15°	1378.1	1375.7	1382.7	1382.7	1382.7
17.5°	1359.5	1357.1	1366.4	1366.4	1366.4
20°	1336.2	1333.9	1347.9	1347.9	1347.9
22.5°	1308.3	1306.0	1324.6	1324.6	1324.6
25°	1278.1	1278.1	1296.7	1301.4	1301.4
27.5°	1247.9	1247.9	1268.8	1275.8	1275.8
30°	1215.4	1215.4	1236.3	1245.6	1250.3
32.5°	1175.9	1180.5	1203.8	1215.4	1220.0
35°	1136.4	1143.4	1166.6	1182.9	1192.2
37.5°	1094.6	1101.5	1129.4	1148.0	1159.6
40°	1050.4	1059.7	1089.9	1113.1	1127.1
42.5°	1001.6	1015.5	1050.4	1080.6	1099.2
45°	955.1	971.4	1008.6	1050.4	1071.3
47.5°	904.0	922.6	964.4	1017.9	1038.8
50°	850.5	869.1	920.3	980.7	1003.9
52.5°	797.1	818.0	878.4	943.5	971.4
55°	739.0	762.2	836.6	906.3	936.5
57.5°	678.6	706.5	790.1	864.5	897.0
60°	615.8	650.7	743.6	822.7	857.5
62.5°	550.8	592.6	697.2	780.8	818.0
65°	488.0	534.5	648.4	736.7	776.2
67.5°	420.6	478.7	599.6	694.8	732.0
70°	353.2	420.6	548.4	646.0	683.2
72.5°	285.8	367.2	497.3	585.6	585.6
75°	220.8	311.4	443.9	441.5	427.6
77.5°	167.3	260.3	364.9	311.4	313.7
80°	120.8	209.1	230.1	230.1	232.4
82.5°	81.3	160.3	148.7	146.4	151.1
85°	48.8	74.4	76.7	69.7	72.0
87.5°	23.2	25.6	20.9	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)