

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: P263092

Luminaire Tested: **24CZ-LD5-50-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263092
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-LD5-50-SQP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3144.0 lumens
Efficiency: N/A
Efficacy: 88.2 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

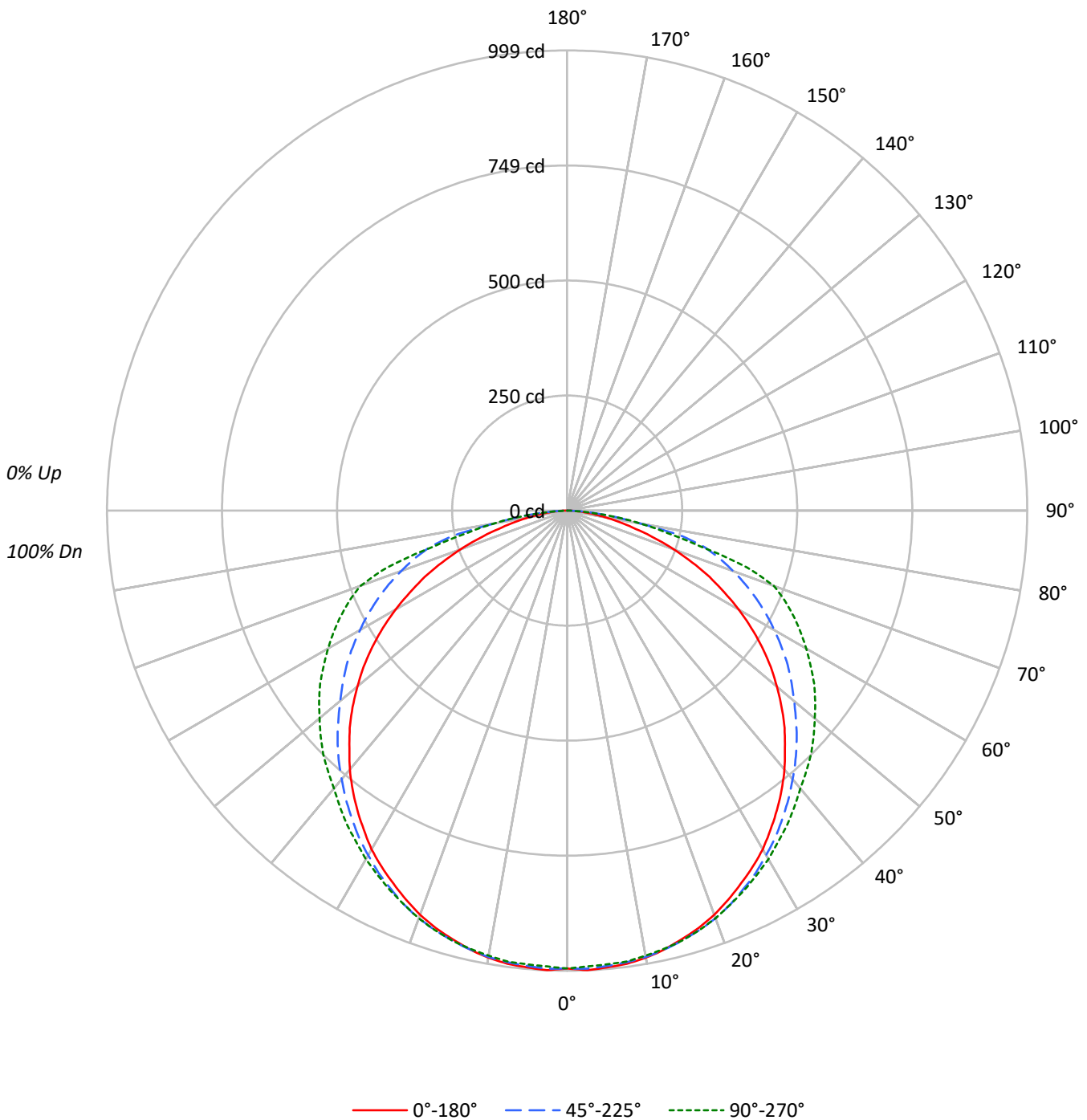
Input Watts (W): 35.640576
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56					56			
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47					47			
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41					41			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35					35			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28					28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25					25			
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1337	1337	1337
5°	1345	1340	1336
10°	1347	1345	1340
15°	1341	1346	1346
20°	1337	1349	1349
25°	1326	1345	1350
30°	1320	1342	1357
35°	1304	1339	1368
40°	1289	1338	1383
45°	1270	1341	1425
50°	1244	1346	1469
55°	1211	1371	1535
60°	1158	1399	1612
65°	1086	1443	1727
70°	971	1508	1878
75°	802	1613	1553
80°	654	1246	1258
85°	526	827	777



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	3.0
10°-20°	272.4	8.7
20°-30°	416.3	13.2
30°-40°	509.1	16.2
40°-50°	544.8	17.3
50°-60°	521.7	16.6
60°-70°	441.3	14.0
70°-80°	279.7	8.9
80°-90°	64.3	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°	783.1	24.9
0°-40°	1292.2	41.1
0°-60°	2358.6	75.0
0°-90°	3144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	996	991	992	991	989	95
15°	963	961	966	966	966	272
25°	893	893	906	909	909	412
35°	794	799	815	827	833	497
45°	668	679	705	734	749	514
55°	516	533	585	633	654	461
65°	341	374	453	515	542	336
75°	154	218	310	309	299	168
85°	34	52	54	49	50	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	993.9	993.9	993.9	993.9	993.9
2.5°	998.7	993.9	995.5	993.9	990.6
5°	995.5	990.6	992.3	990.6	989.0
7.5°	992.3	987.4	989.0	987.4	987.4
10°	985.8	980.9	984.1	982.5	980.9
12.5°	976.0	972.8	976.0	974.4	974.4
15°	963.0	961.4	966.3	966.3	966.3
17.5°	950.0	948.4	954.9	954.9	954.9
20°	933.8	932.2	941.9	941.9	941.9
22.5°	914.3	912.7	925.7	925.7	925.7
25°	893.2	893.2	906.2	909.4	909.4
27.5°	872.1	872.1	886.7	891.6	891.6
30°	849.3	849.3	864.0	870.5	873.7
32.5°	821.7	825.0	841.2	849.3	852.6
35°	794.1	799.0	815.2	826.6	833.1
37.5°	764.9	769.8	789.3	802.2	810.4
40°	734.0	740.5	761.6	777.9	787.6
42.5°	699.9	709.7	734.0	755.2	768.1
45°	667.5	678.8	704.8	734.0	748.7
47.5°	631.7	644.7	674.0	711.3	725.9
50°	594.4	607.4	643.1	685.3	701.6
52.5°	557.0	571.6	613.9	659.3	678.8
55°	516.4	532.7	584.6	633.4	654.5
57.5°	474.2	493.7	552.2	604.1	626.9
60°	430.4	454.7	519.7	574.9	599.2
62.5°	384.9	414.1	487.2	545.7	571.6
65°	341.0	373.5	453.1	514.8	542.4
67.5°	293.9	334.5	419.0	485.6	511.6
70°	246.8	293.9	383.3	451.5	477.5
72.5°	199.7	256.6	347.5	409.2	409.2
75°	154.3	217.6	310.2	308.6	298.8
77.5°	116.9	181.9	255.0	217.6	219.2
80°	84.4	146.2	160.8	160.8	162.4
82.5°	56.8	112.1	103.9	102.3	105.6
85°	34.1	52.0	53.6	48.7	50.3
87.5°	16.2	17.9	14.6	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)