

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: P260841

Luminaire Tested: **24CZ-LD5-30-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2782.0 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

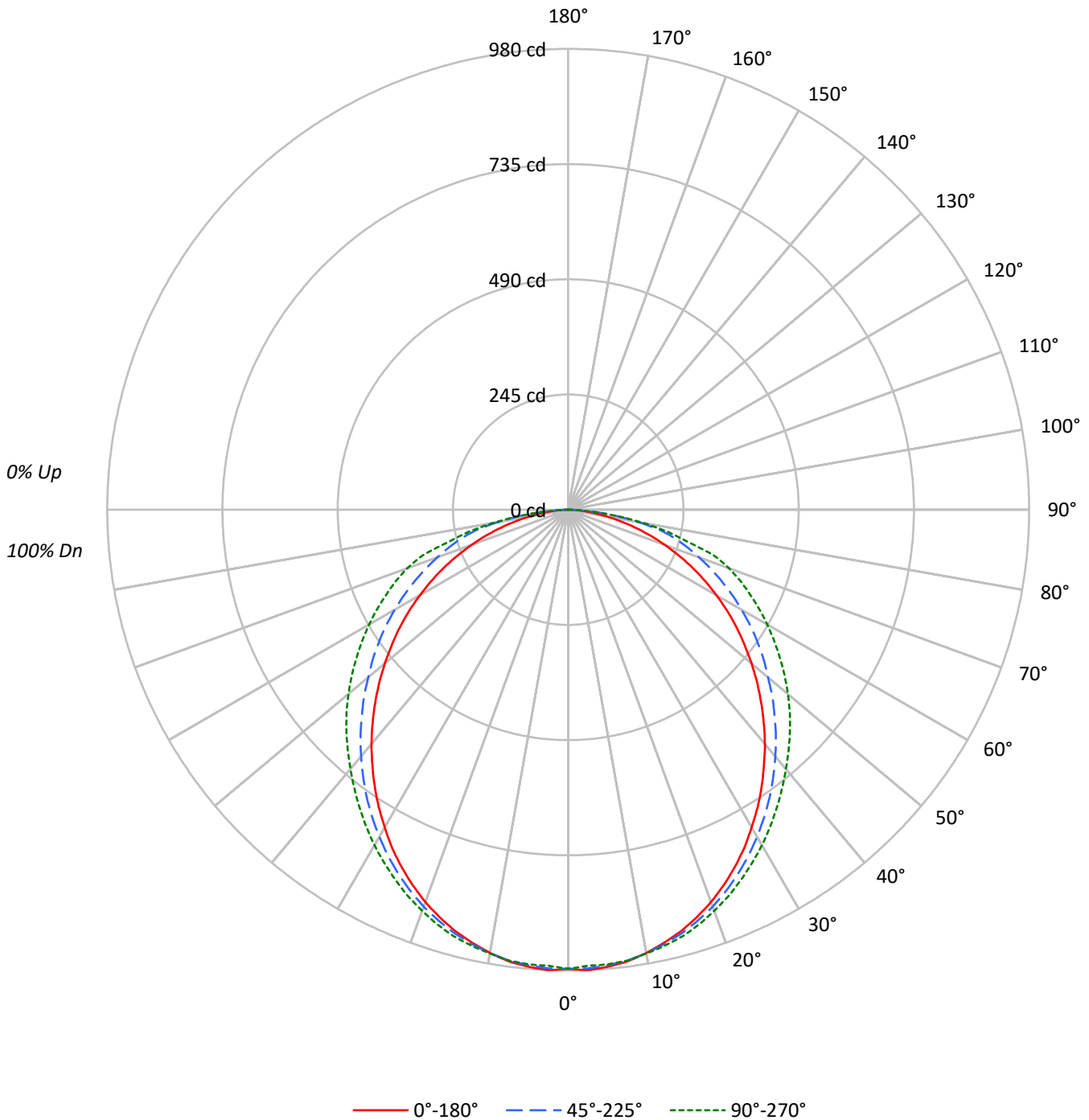
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1314	1314	1314
5°	1317	1313	1311
10°	1308	1308	1309
15°	1292	1299	1308
20°	1271	1286	1300
25°	1244	1268	1290
30°	1212	1248	1280
35°	1178	1227	1270
40°	1143	1203	1265
45°	1104	1180	1269
50°	1065	1160	1276
55°	1026	1153	1289
60°	979	1146	1315
65°	928	1146	1358
70°	858	1165	1432
75°	767	1218	1362
80°	642	1166	1247
85°	485	897	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	3.3
10°-20°	262.6	9.4
20°-30°	392.6	14.1
30°-40°	465.7	16.7
40°-50°	479.3	17.2
50°-60°	439.7	15.8
60°-70°	355.5	12.8
70°-80°	230.7	8.3
80°-90°	63.6	2.3
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°	747.4	26.9
0°-40°	1213.1	43.6
0°-60°	2132.1	76.6
0°-90°	2782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	975	969	972	972	971	93
15°	928	924	932	936	939	261
25°	838	839	854	862	869	386
35°	717	723	747	763	773	449
45°	580	590	620	650	667	448
55°	437	450	492	532	550	391
65°	292	309	360	408	427	288
75°	148	175	234	262	262	157
85°	31	53	58	56	55	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	976.3	976.3	976.3	976.3	976.3
2.5°	980.1	972.5	976.3	975.4	970.6
5°	975.4	968.7	972.5	971.6	970.6
7.5°	968.7	962.0	966.8	965.9	966.8
10°	957.3	951.6	957.3	958.2	958.2
12.5°	943.0	938.2	945.9	947.8	949.7
15°	927.8	923.9	932.5	936.3	939.2
17.5°	908.7	905.9	916.3	921.1	924.9
20°	887.8	886.8	898.2	903.0	907.8
22.5°	863.9	863.9	877.3	883.0	889.7
25°	838.2	839.2	854.4	862.0	868.7
27.5°	810.6	811.6	829.6	839.2	846.8
30°	780.1	783.9	803.0	815.4	823.9
32.5°	749.6	754.4	775.4	789.6	799.2
35°	717.3	723.0	746.8	763.0	773.4
37.5°	683.9	690.6	716.3	734.4	746.8
40°	650.6	658.2	684.9	705.8	720.1
42.5°	615.3	623.9	653.4	678.2	693.4
45°	580.1	589.6	620.1	649.6	666.8
47.5°	544.8	556.3	588.7	621.0	639.1
50°	508.6	520.1	554.4	591.5	609.6
52.5°	472.5	485.8	523.9	562.0	580.1
55°	437.2	450.5	491.5	531.5	549.6
57.5°	401.0	414.3	459.1	501.0	519.1
60°	363.9	379.1	425.8	468.6	488.6
62.5°	327.7	343.9	393.4	439.1	458.2
65°	291.5	308.6	360.1	407.7	426.7
67.5°	254.3	274.3	327.7	376.2	396.3
70°	218.1	240.0	296.2	344.8	363.9
72.5°	182.9	206.7	264.8	314.3	325.8
75°	147.6	175.3	234.3	261.9	261.9
77.5°	114.3	144.8	200.0	210.5	216.2
80°	82.9	116.2	150.5	162.9	161.0
82.5°	55.2	88.6	107.6	107.6	104.8
85°	31.4	53.3	58.1	56.2	55.2
87.5°	13.3	20.0	18.1	14.3	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)