

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: P260794

Luminaire Tested: **24CZ-LD5-30SE-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260794
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-LD5-30SE-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2962.0 lumens
Efficiency: N/A
Efficacy: 135.5 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

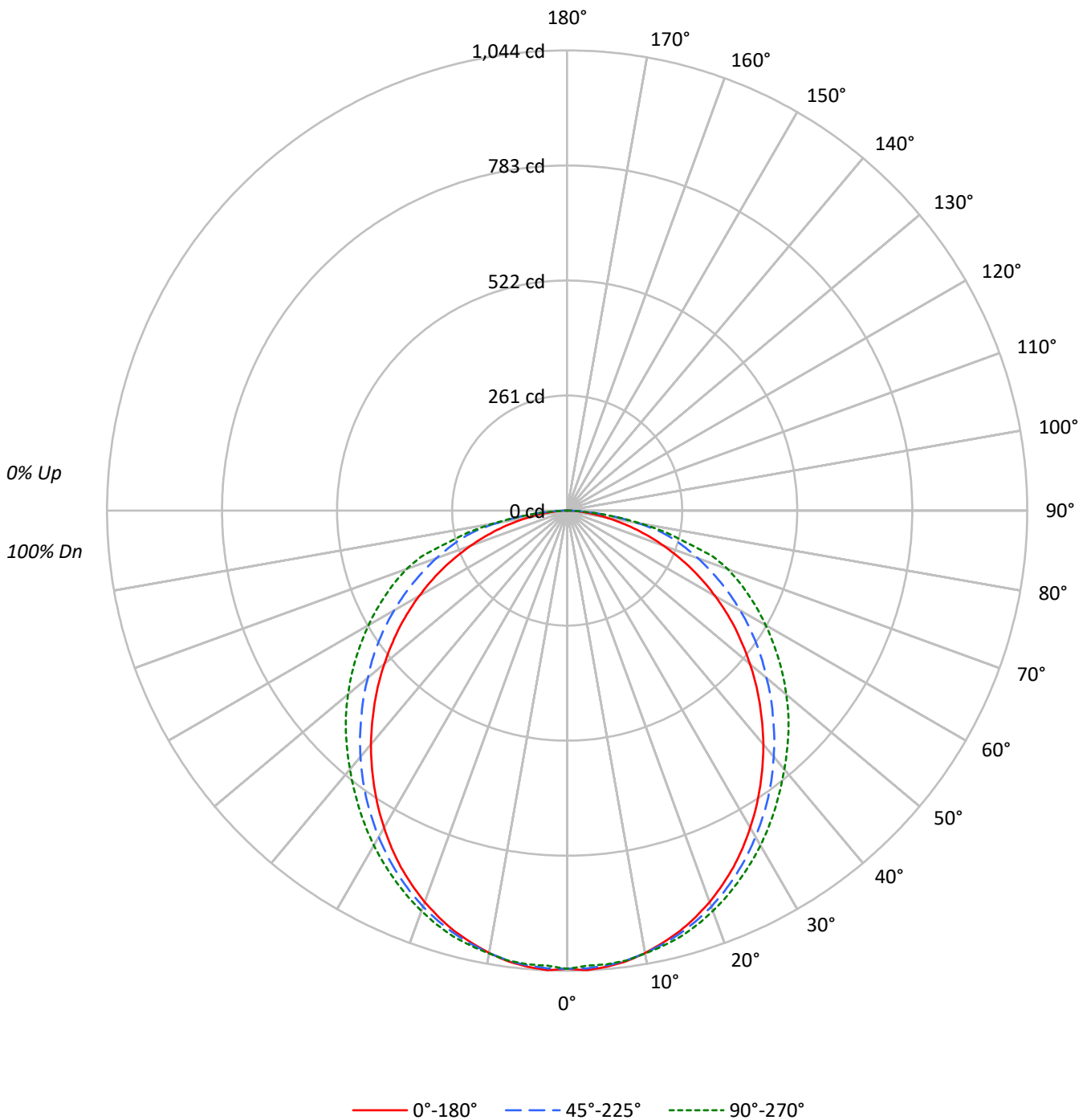
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260794

CATALOG NUMBER: 24CZ-LD5-30SE-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P260794

CATALOG NUMBER: 24CZ-LD5-30SE-UNV-L82765-W2A1-U-3500K

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°	1399	1399	1399
5°	1403	1399	1396
10°	1392	1392	1394
15°	1376	1383	1393
20°	1353	1369	1384
25°	1325	1351	1373
30°	1290	1328	1363
35°	1254	1306	1353
40°	1217	1281	1347
45°	1175	1256	1351
50°	1134	1235	1359
55°	1092	1228	1373
60°	1042	1220	1400
65°	988	1221	1446
70°	913	1241	1524
75°	817	1297	1450
80°	683	1241	1328
85°	517	956	908



TEST NUMBER: P260794

CATALOG NUMBER: 24CZ-LD5-30SE-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	3.3
10°-20°	279.6	9.4
20°-30°	417.9	14.1
30°-40°	495.8	16.7
40°-50°	510.3	17.2
50°-60°	468.2	15.8
60°-70°	378.5	12.8
70°-80°	245.7	8.3
80°-90°	67.7	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°	795.8	26.9
0°-40°	1291.6	43.6
0°-60°	2270.1	76.6
0°-90°	2962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2962.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1038	1031	1036	1034	1033	99
15°	988	984	993	997	1000	278
25°	892	894	910	918	925	411
35°	764	770	795	812	824	478
45°	618	628	660	692	710	477
55°	466	480	523	566	585	416
65°	310	329	383	434	454	307
75°	157	187	250	279	279	167
85°	34	57	62	60	59	41
90°	0	0	0	0	0	



TEST NUMBER: P260794

CATALOG NUMBER: 24CZ-LD5-30SE-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1039.5	1039.5	1039.5	1039.5	1039.5
2.5°	1043.6	1035.5	1039.5	1038.5	1033.4
5°	1038.5	1031.4	1035.5	1034.4	1033.4
7.5°	1031.4	1024.3	1029.4	1028.4	1029.4
10°	1019.2	1013.1	1019.2	1020.2	1020.2
12.5°	1004.0	998.9	1007.1	1009.1	1011.1
15°	987.8	983.7	992.9	996.9	1000.0
17.5°	967.5	964.5	975.6	980.7	984.7
20°	945.2	944.2	956.3	961.4	966.5
22.5°	919.8	919.8	934.0	940.1	947.2
25°	892.5	893.5	909.7	917.8	924.9
27.5°	863.0	864.1	883.3	893.5	901.6
30°	830.6	834.6	854.9	868.1	877.2
32.5°	798.1	803.2	825.5	840.7	850.9
35°	763.7	769.7	795.1	812.3	823.5
37.5°	728.2	735.3	762.6	781.9	795.1
40°	692.7	700.8	729.2	751.5	766.7
42.5°	655.1	664.3	695.7	722.1	738.3
45°	617.6	627.8	660.2	691.7	709.9
47.5°	580.1	592.3	626.7	661.2	680.5
50°	541.6	553.7	590.2	629.8	649.1
52.5°	503.0	517.2	557.8	598.4	617.6
55°	465.5	479.7	523.3	565.9	585.2
57.5°	427.0	441.2	488.8	533.4	552.7
60°	387.4	403.6	453.3	499.0	520.3
62.5°	348.9	366.1	418.8	467.5	487.8
65°	310.3	328.6	383.4	434.1	454.3
67.5°	270.8	292.1	348.9	400.6	421.9
70°	232.2	255.6	315.4	367.1	387.4
72.5°	194.7	220.1	281.9	334.7	346.8
75°	157.2	186.6	249.5	278.9	278.9
77.5°	121.7	154.2	213.0	224.1	230.2
80°	88.2	123.7	160.2	173.4	171.4
82.5°	58.8	94.3	114.6	114.6	111.6
85°	33.5	56.8	61.9	59.8	58.8
87.5°	14.2	21.3	19.3	15.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)