

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: P260792

Luminaire Tested: **24CZ-LD5-30SE-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260792
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-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2783.0 lumens
Efficiency: N/A
Efficacy: 127.9 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

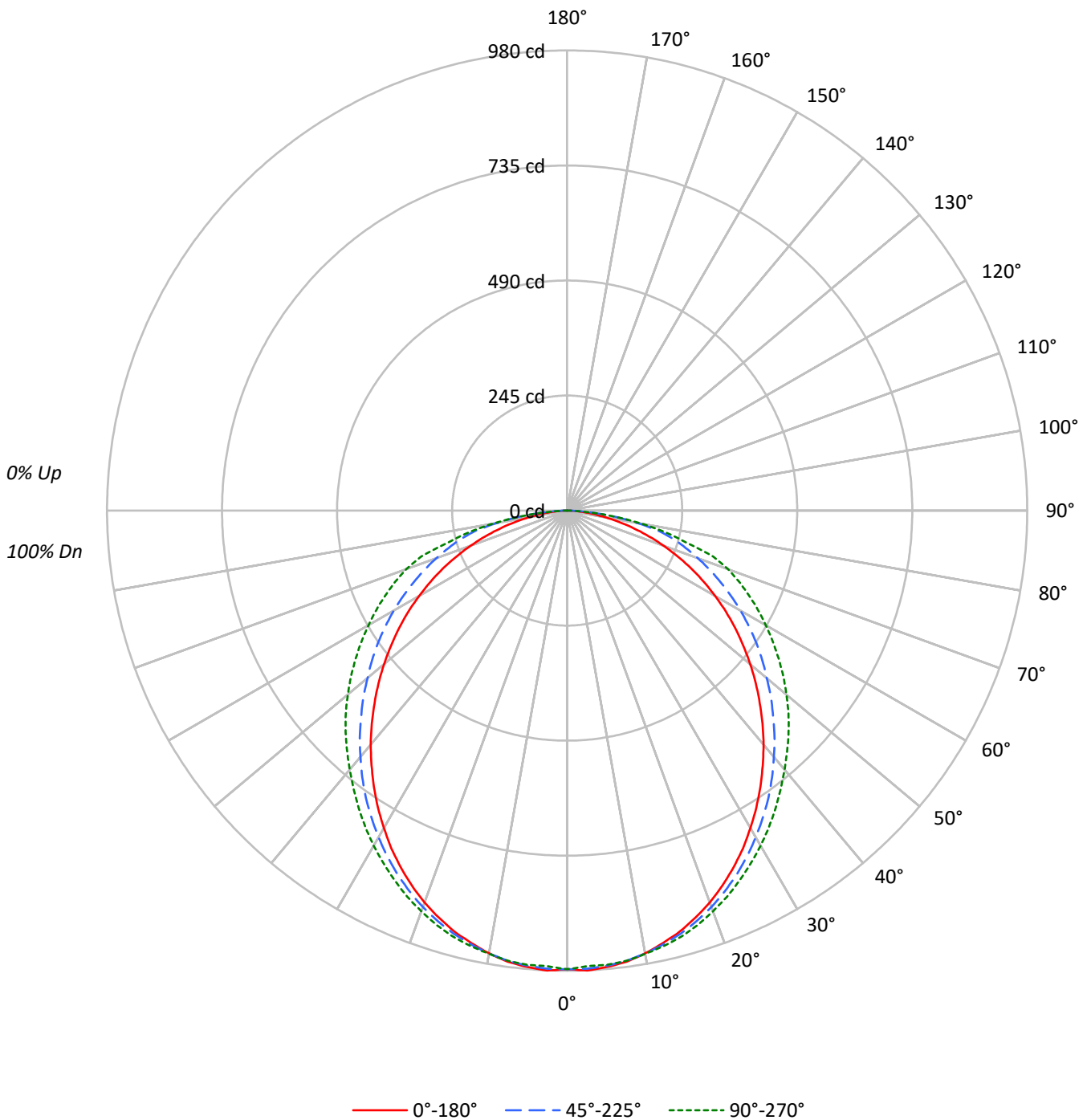
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1318	1314	1311
10°	1308	1308	1310
15°	1293	1299	1309
20°	1272	1287	1300
25°	1245	1269	1290
30°	1212	1248	1281
35°	1179	1227	1271
40°	1143	1203	1265
45°	1104	1180	1269
50°	1065	1161	1276
55°	1026	1153	1290
60°	980	1146	1315
65°	928	1147	1359
70°	858	1166	1432
75°	768	1219	1362
80°	642	1167	1247
85°	485	897	854



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	3.3
10°-20°	262.7	9.4
20°-30°	392.7	14.1
30°-40°	465.9	16.7
40°-50°	479.5	17.2
50°-60°	439.9	15.8
60°-70°	355.6	12.8
70°-80°	230.8	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°	747.7	26.9
0°-40°	1213.5	43.6
0°-60°	2132.9	76.6
0°-90°	2783.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2783.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	977	977	977	977	977	
5°	976	969	973	972	971	93
15°	928	924	933	937	940	261
25°	838	840	855	862	869	386
35°	718	723	747	763	774	449
45°	580	590	620	650	667	448
55°	437	451	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°	976.7	976.7	976.7	976.7	976.7
2.5°	980.5	972.9	976.7	975.7	971.0
5°	975.7	969.1	972.9	971.9	971.0
7.5°	969.1	962.4	967.2	966.2	967.2
10°	957.6	951.9	957.6	958.6	958.6
12.5°	943.3	938.6	946.2	948.1	950.0
15°	928.1	924.3	932.9	936.7	939.5
17.5°	909.0	906.2	916.7	921.4	925.2
20°	888.1	887.1	898.6	903.3	908.1
22.5°	864.3	864.3	877.6	883.3	890.0
25°	838.5	839.5	854.7	862.3	869.0
27.5°	810.9	811.8	829.9	839.5	847.1
30°	780.4	784.2	803.3	815.7	824.2
32.5°	749.9	754.7	775.6	789.9	799.5
35°	717.5	723.2	747.0	763.2	773.7
37.5°	684.2	690.8	716.6	734.7	747.0
40°	650.8	658.4	685.1	706.1	720.4
42.5°	615.6	624.1	653.7	678.4	693.7
45°	580.3	589.8	620.3	649.9	667.0
47.5°	545.0	556.5	588.9	621.3	639.4
50°	508.8	520.3	554.6	591.7	609.8
52.5°	472.6	486.0	524.1	562.2	580.3
55°	437.4	450.7	491.7	531.7	549.8
57.5°	401.2	414.5	459.3	501.2	519.3
60°	364.0	379.2	425.9	468.8	488.8
62.5°	327.8	344.0	393.5	439.3	458.3
65°	291.6	308.7	360.2	407.8	426.9
67.5°	254.4	274.4	327.8	376.4	396.4
70°	218.2	240.1	296.3	344.9	364.0
72.5°	183.0	206.8	264.9	314.4	325.9
75°	147.7	175.3	234.4	262.0	262.0
77.5°	114.3	144.8	200.1	210.6	216.3
80°	82.9	116.2	150.6	162.9	161.0
82.5°	55.3	88.6	107.7	107.7	104.8
85°	31.4	53.4	58.1	56.2	55.3
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)