

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: P345043

Luminaire Tested: **24CZ-35-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1905-313-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-35-L835-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

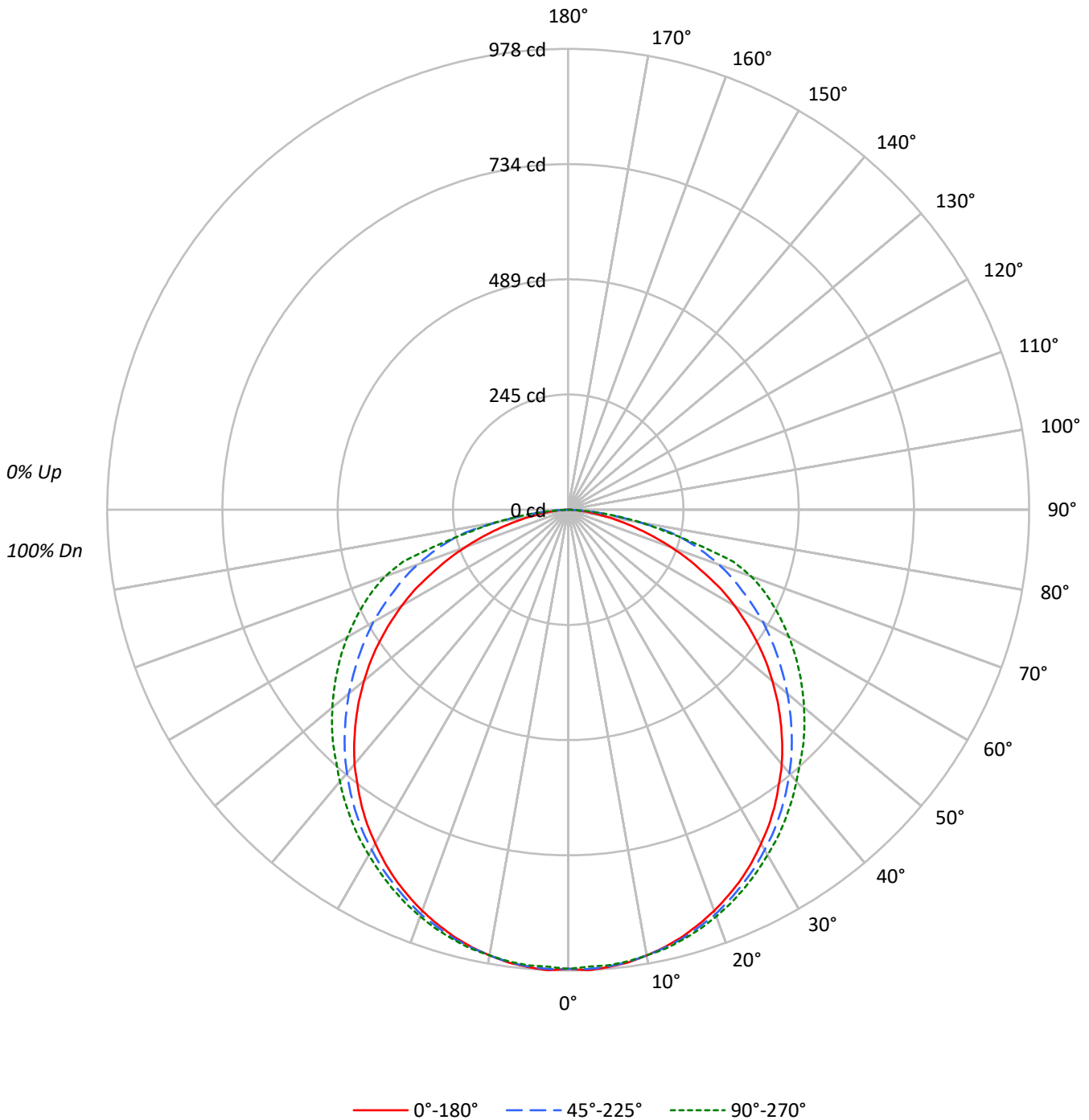
Lumens per Lamp: N/A
Luminaire Lumens: 2965.8 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.3
Input Voltage (V): NR
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	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1311	1311	1311
5°	1316	1314	1311
10°	1312	1312	1312
15°	1306	1311	1315
20°	1297	1308	1315
25°	1286	1301	1315
30°	1271	1295	1315
35°	1256	1290	1319
40°	1238	1283	1323
45°	1214	1276	1342
50°	1184	1271	1367
55°	1147	1273	1404
60°	1097	1285	1456
65°	1015	1298	1529
70°	915	1340	1624
75°	773	1380	1453
80°	600	1182	1220
85°	432	804	706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	3.1
10°-20°	265.2	8.9
20°-30°	403.3	13.6
30°-40°	490.0	16.5
40°-50°	517.2	17.4
50°-60°	486.0	16.4
60°-70°	400.1	13.5
70°-80°	252.1	8.5
80°-90°	59.5	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°	760.9	25.7
0°-40°	1251.0	42.2
0°-60°	2254.2	76.0
0°-90°	2965.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2965.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	974	974	974	974	974	
5°	974	969	973	972	971	93
15°	938	934	941	944	944	264
25°	866	865	877	882	886	399
35°	765	769	785	795	803	478
45°	638	648	671	690	705	492
55°	489	507	542	581	598	437
65°	319	349	408	460	480	317
75°	149	194	266	290	280	159
85°	28	47	52	48	46	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	974.4	974.4	974.4	974.4	974.4
2.5°	978.3	971.9	975.7	974.4	970.6
5°	974.4	969.4	973.2	971.9	970.6
7.5°	969.4	964.3	968.1	966.8	966.8
10°	960.5	956.7	960.5	960.5	960.5
12.5°	950.3	946.5	951.6	952.8	954.1
15°	937.6	933.8	941.4	944.0	944.0
17.5°	922.4	919.8	927.4	930.0	932.5
20°	905.8	904.6	913.5	916.0	918.5
22.5°	886.8	886.8	895.7	898.2	903.3
25°	866.5	865.2	876.6	881.7	885.5
27.5°	843.6	843.6	856.3	862.6	866.5
30°	818.2	820.7	833.4	841.0	846.1
32.5°	792.8	795.3	810.6	819.4	825.8
35°	764.8	768.6	785.1	795.3	802.9
37.5°	734.3	740.7	758.5	769.9	778.8
40°	705.1	710.2	730.5	743.2	753.4
42.5°	672.1	681.0	701.3	716.5	728.0
45°	637.8	647.9	670.8	689.9	705.1
47.5°	602.2	614.9	639.0	664.4	679.7
50°	565.4	579.3	607.3	637.8	653.0
52.5°	528.5	543.8	574.2	609.8	626.3
55°	489.1	506.9	542.5	580.6	598.4
57.5°	448.5	468.8	509.5	552.6	570.4
60°	407.8	429.4	477.7	520.9	541.2
62.5°	365.9	390.0	442.1	491.7	510.7
65°	318.9	349.4	407.8	459.9	480.2
67.5°	275.7	307.5	374.8	426.9	448.5
70°	232.5	269.3	340.5	392.6	412.9
72.5°	189.3	232.5	302.4	355.7	367.2
75°	148.6	194.4	265.5	289.7	279.5
77.5°	109.3	160.1	223.6	210.9	208.4
80°	77.5	127.0	152.5	153.7	157.5
82.5°	49.5	94.0	99.1	100.4	101.6
85°	28.0	47.0	52.1	48.3	45.7
87.5°	12.7	15.2	12.7	8.9	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)