

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: P#

Luminaire Tested: **24CZ-LD5-65SE-RDP-UNV-L850-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-65SE-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Luminaire Equipment:	<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
	AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
	AS-5443-2	Good	REFLECTOR
	AS-5443-3	Good	DRIVER
	AS-5443-4	Good	UPPER MODULE
	AS-5443-5	Good	LENS
	AS-5443-6	Good	DRIVER 2
	AS-5443-7	Good	TRIM RING

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4749.5 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

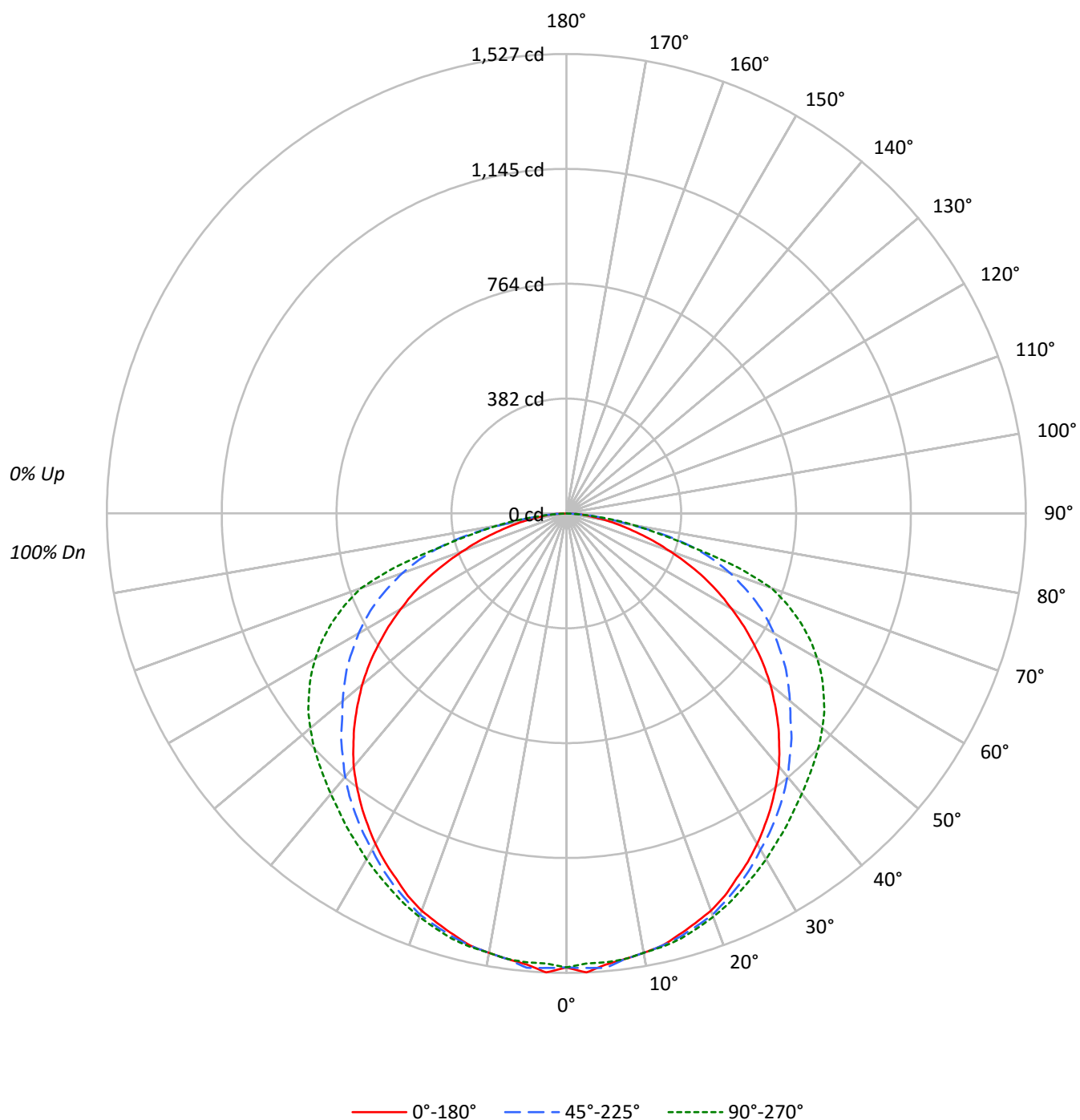
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2030	2030	2030
5°	2028	2038	2014
10°	2017	2007	2008
15°	2006	2001	2013
20°	1994	1995	2007
25°	1965	1972	2001
30°	1943	1946	2005
35°	1917	1934	2019
40°	1891	1923	2052
45°	1849	1913	2112
50°	1799	1910	2193
55°	1729	1938	2285
60°	1636	1964	2384
65°	1527	1993	2471
70°	1344	1988	2513
75°	1140	1905	1907
80°	926	1296	1425
85°	708	709	652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	3.0
10°-20°	411.3	8.7
20°-30°	626.8	13.2
30°-40°	767.0	16.1
40°-50°	825.3	17.4
50°-60°	799.4	16.8
60°-70°	677.2	14.3
70°-80°	409.3	8.6
80°-90°	89.9	1.9
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°	1181.4	24.9
0°-40°	1948.4	41.0
0°-60°	3573.1	75.2
0°-90°	4749.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4749.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1505	1505	1516	1509	1498	143
15°	1450	1453	1457	1461	1464	409
25°	1339	1346	1361	1372	1380	618
35°	1188	1195	1221	1254	1272	743
45°	996	1014	1059	1125	1166	768
55°	764	797	889	992	1044	682
65°	505	561	697	808	859	498
75°	240	325	439	446	435	258
85°	59	70	74	70	66	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1508.6	1508.6	1508.6	1508.6	1508.6
2.5°	1527.0	1523.3	1512.3	1504.9	1497.5
5°	1504.9	1504.9	1515.9	1508.6	1497.5
7.5°	1493.8	1493.8	1493.8	1512.3	1493.8
10°	1482.7	1486.4	1482.7	1497.5	1482.7
12.5°	1471.7	1471.7	1471.7	1475.4	1475.4
15°	1449.6	1453.2	1456.9	1460.6	1464.3
17.5°	1427.4	1431.1	1438.5	1442.2	1445.9
20°	1405.3	1409.0	1420.0	1420.0	1427.4
22.5°	1375.8	1375.8	1390.5	1394.2	1405.3
25°	1338.9	1346.3	1361.0	1372.1	1379.5
27.5°	1305.7	1313.1	1327.8	1342.6	1353.7
30°	1268.8	1276.2	1290.9	1313.1	1327.8
32.5°	1228.2	1235.6	1257.8	1283.6	1298.3
35°	1187.7	1195.1	1220.9	1254.1	1272.5
37.5°	1143.4	1154.5	1184.0	1220.9	1243.0
40°	1099.2	1110.2	1143.4	1184.0	1217.2
42.5°	1047.5	1062.3	1099.2	1154.5	1191.4
45°	995.9	1014.3	1058.6	1125.0	1165.5
47.5°	940.5	959.0	1010.6	1095.5	1139.7
50°	885.2	907.4	970.1	1062.3	1110.2
52.5°	826.2	848.3	929.5	1029.1	1080.7
55°	763.5	796.7	888.9	992.2	1043.8
57.5°	700.8	737.7	841.0	951.6	1006.9
60°	634.4	678.7	796.7	907.4	962.7
62.5°	571.7	619.7	748.8	859.4	914.7
65°	505.3	560.6	697.1	807.8	859.4
67.5°	435.2	505.3	638.1	745.1	796.7
70°	365.2	446.3	579.1	678.7	726.6
72.5°	302.5	387.3	512.7	597.5	597.5
75°	239.7	324.6	438.9	446.3	435.2
77.5°	184.4	265.6	343.0	313.5	320.9
80°	136.5	202.9	217.6	228.7	236.1
82.5°	92.2	136.5	140.2	147.5	147.5
85°	59.0	70.1	73.8	70.1	66.4
87.5°	25.8	29.5	22.1	14.8	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)