

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P147846

Luminaire Tested: **TLM-F01-LED-E1-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147846
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-F01-LED-E1-5WQ-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (7) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2696.9 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

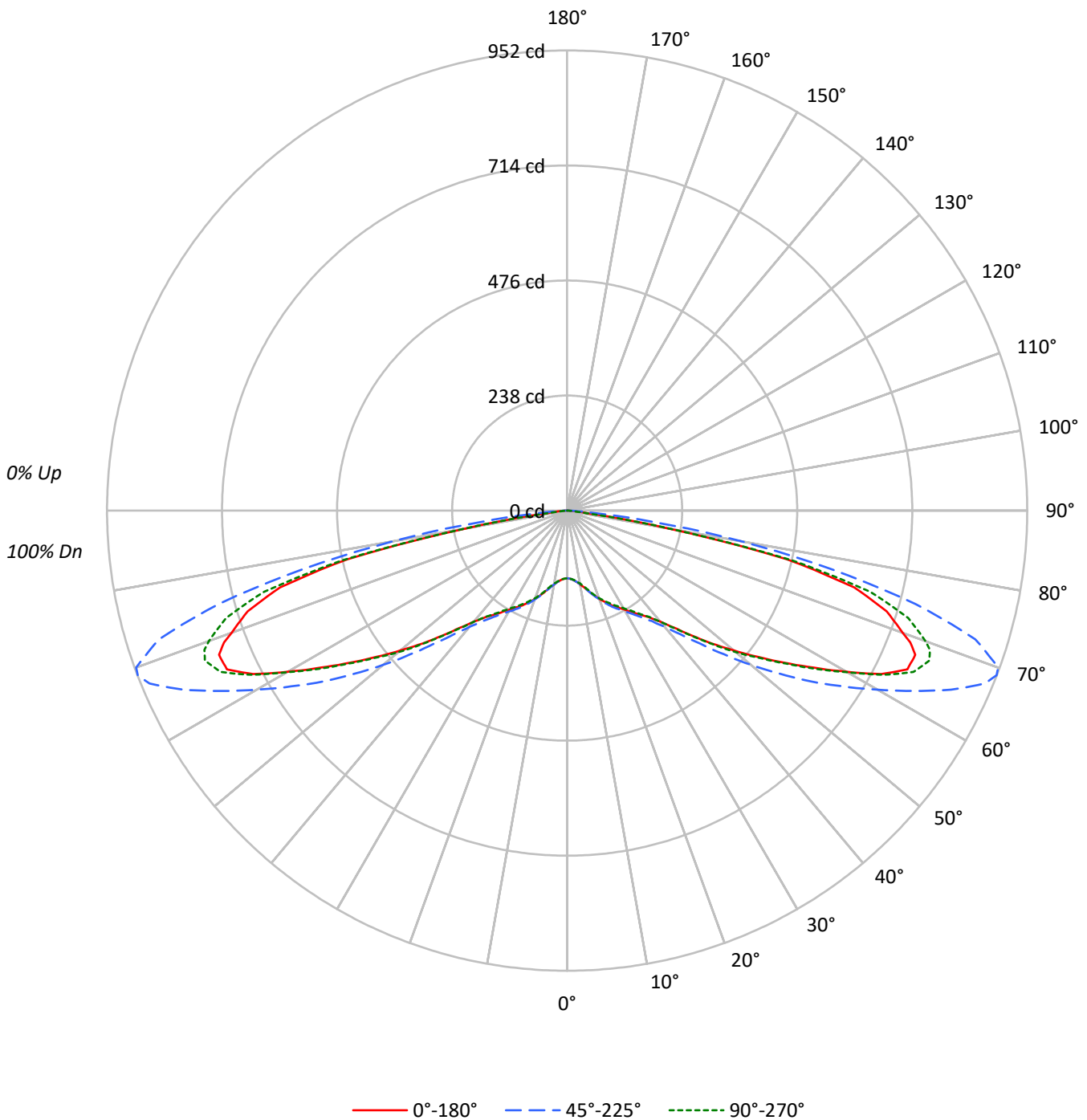
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	96	90	84	100	94	88	82	89	84	80	85	81	77	81	78	75	72
2	89	77	67	58	86	75	65	58	71	63	56	67	60	55	64	58	53	51
3	78	63	51	42	75	61	50	42	58	48	41	54	46	40	52	45	39	36
4	69	52	41	31	66	51	40	31	48	38	31	45	37	30	43	36	29	27
5	62	45	33	24	59	44	32	24	41	31	24	39	30	23	37	29	23	20
6	56	39	28	19	54	38	27	19	36	26	19	34	25	19	32	24	18	16
7	51	34	24	16	49	34	23	16	32	22	16	30	22	15	29	21	15	13
8	47	31	20	13	45	30	20	13	29	20	13	27	19	13	26	18	13	10
9	44	28	18	11	42	27	18	11	26	17	11	25	17	11	23	16	11	9
10	41	25	16	10	39	25	16	10	24	15	10	23	15	10	22	15	10	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8864	8864	8864
5°	9152	9152	9114
10°	9966	9946	9856
15°	11308	11366	11196
20°	13092	13207	12978
25°	15069	15307	14853
30°	17262	17649	17050
35°	20298	20847	20120
40°	24805	25954	24805
45°	32764	34895	32889
50°	44307	48897	44918
55°	60560	68044	60902
60°	84389	93823	84706
65°	116381	131348	118404
70°	136735	175685	146047
75°	150453	182647	158795
80°	76098	133126	78359
85°	9880	36106	7555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	0.5
10°-20°	49.7	1.8
20°-30°	100.6	3.7
30°-40°	168.6	6.3
40°-50°	297.4	11.0
50°-60°	524.4	19.4
60°-70°	800.6	29.7
70°-80°	669.0	24.8
80°-90°	72.7	2.7
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°	164.3	6.1
0°-40°	332.9	12.3
0°-60°	1154.6	42.8
0°-90°	2696.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2696.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	140	140	140	140	140	
5°	144	144	144	144	143	14
15°	172	173	173	172	171	50
25°	216	217	219	215	213	100
35°	263	264	270	264	260	167
45°	366	374	390	378	367	288
55°	549	575	616	579	552	497
65°	777	819	877	825	790	744
75°	615	650	747	691	649	592
85°	14	23	50	20	10	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
2.5°	141.2	141.5	141.2	141.2	141.2	141.2	141.2	140.9	140.9	140.9	141.2
5°	144.0	144.3	144.0	144.3	144.3	144.3	144.3	144.0	144.0	144.0	144.0
7.5°	148.5	148.5	148.5	148.8	148.5	148.5	148.8	148.5	148.5	148.5	148.5
10°	155.0	154.7	154.7	154.7	154.7	154.7	155.0	155.0	155.0	154.7	154.7
12.5°	162.9	162.6	162.9	162.9	163.2	163.2	163.2	163.2	163.2	163.2	162.9
15°	172.5	172.5	172.5	172.8	173.4	173.4	173.1	173.4	173.4	173.4	173.4
17.5°	183.3	183.8	183.3	183.5	183.8	183.5	184.1	184.4	184.7	184.4	183.5
20°	194.3	194.5	194.5	194.5	194.5	195.1	195.4	195.4	196.2	196.0	195.7
22.5°	204.7	205.3	205.3	205.6	205.6	206.4	206.4	206.4	207.0	207.5	207.0
25°	215.7	215.4	215.4	216.0	216.3	217.4	217.4	218.0	218.8	219.1	218.5
27.5°	225.6	225.3	225.3	226.2	226.5	227.9	227.9	229.0	229.6	229.8	229.3
30°	236.1	236.1	235.8	236.6	237.5	238.6	239.2	240.3	241.1	241.4	240.9
32.5°	248.5	247.9	248.2	248.8	249.3	250.5	251.3	252.7	253.8	254.1	253.6
35°	262.6	261.7	262.0	262.6	263.4	265.1	266.5	267.4	269.1	269.7	268.5
37.5°	278.1	278.4	278.1	279.5	280.9	282.9	284.6	285.7	287.4	288.3	287.4
40°	300.1	299.3	300.1	301.6	303.8	306.4	309.7	310.6	312.3	314.0	312.0
42.5°	328.7	328.1	330.1	331.2	333.7	336.6	340.8	343.1	345.6	346.7	345.0
45°	365.9	365.9	368.2	368.5	372.4	376.1	382.0	384.9	389.7	389.7	389.7
47.5°	407.2	408.9	410.3	413.1	415.9	422.7	428.6	434.8	439.3	439.9	439.1
50°	449.8	451.5	455.7	459.7	465.9	474.4	480.9	489.0	493.0	496.4	495.3
52.5°	497.0	497.2	502.3	507.4	516.4	525.8	536.2	544.7	551.7	554.8	552.3
55°	548.6	549.2	553.7	559.1	569.2	580.0	593.0	601.7	610.7	616.4	612.2
57.5°	604.5	604.8	609.3	615.8	628.0	638.7	651.1	663.5	672.0	677.1	674.3
60°	666.4	667.8	671.2	679.4	690.9	702.2	714.6	725.7	735.5	740.9	738.1
62.5°	732.4	733.8	738.6	745.1	755.3	767.7	779.6	793.7	801.9	807.8	803.6
65°	776.8	779.3	786.9	795.7	810.7	826.7	840.6	859.8	869.7	876.7	872.8
67.5°	779.6	781.0	790.3	803.6	823.6	847.9	876.2	906.1	925.6	934.9	928.1
69°	760.4	762.4	771.4	786.4	808.7	836.9	870.5	907.8	937.7	951.5	945.1
70°	738.6	742.9	752.8	769.1	790.9	820.5	855.3	895.1	930.1	949.0	944.2
72.5°	692.9	694.0	700.5	713.5	730.2	754.7	787.5	825.1	858.4	885.5	889.4
75°	615.0	618.6	623.4	632.2	640.7	658.5	680.5	706.2	725.7	746.6	747.4
77.5°	464.8	475.8	479.4	481.4	485.1	499.2	518.4	540.7	556.8	560.2	559.6
80°	208.7	223.3	226.7	242.8	252.7	276.1	305.5	339.7	362.5	365.1	358.9
82.5°	40.9	43.8	51.1	63.8	87.0	100.8	120.0	144.0	166.0	178.7	171.1
85°	13.6	14.4	16.7	18.4	21.2	24.0	29.1	36.1	44.9	49.7	44.3
87.5°	5.4	5.4	6.2	6.8	7.3	7.3	7.3	6.8	6.5	5.4	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
2.5°	140.9	140.9	140.9	140.9	140.9	140.9	140.9	140.9
5°	144.0	143.7	143.7	143.4	143.4	143.4	143.4	143.4
7.5°	148.2	148.0	147.7	148.0	147.7	147.7	147.7	147.7
10°	154.7	154.2	153.9	153.6	153.6	153.6	153.3	153.3
12.5°	162.4	162.4	162.1	161.8	161.2	161.5	161.2	160.7
15°	172.8	172.2	172.0	171.7	171.1	171.1	171.1	170.8
17.5°	183.3	182.7	182.7	181.8	181.6	181.6	181.6	181.8
20°	194.8	194.0	193.4	192.9	192.3	192.6	192.0	192.6
22.5°	206.4	205.3	204.7	203.9	203.0	203.0	202.7	202.2
25°	217.7	216.3	215.7	214.9	213.7	213.7	213.2	212.6
27.5°	228.4	227.0	226.5	224.8	223.6	223.3	222.8	222.5
30°	240.3	238.6	237.7	236.1	234.4	234.1	233.2	233.2
32.5°	252.7	251.0	250.5	247.9	246.5	246.5	245.9	245.4
35°	268.2	265.7	265.1	262.6	260.6	260.6	260.1	260.3
37.5°	286.6	284.6	282.6	280.7	278.4	278.1	277.6	277.0
40°	311.2	308.9	306.6	303.8	301.8	301.3	300.4	300.1
42.5°	343.9	341.7	337.1	334.9	332.9	331.2	330.9	330.6
45°	385.7	382.9	379.8	375.5	373.0	369.3	368.8	367.3
47.5°	436.0	430.6	425.2	421.6	417.6	413.4	412.5	410.3
50°	489.3	485.1	476.1	470.1	463.9	459.7	456.9	456.0
52.5°	546.6	538.7	529.7	521.8	512.8	507.1	502.0	500.6
55°	606.5	595.2	583.9	574.6	565.6	558.8	554.0	551.7
57.5°	666.4	653.9	641.5	631.4	623.7	615.0	610.2	609.0
60°	728.8	716.9	704.2	694.0	684.7	677.1	674.3	668.9
62.5°	794.8	782.4	770.6	760.7	748.8	743.5	738.6	735.5
65°	859.8	845.4	830.4	820.0	808.1	800.5	794.6	790.3
67.5°	910.0	888.3	868.3	850.7	834.7	822.8	815.2	811.2
69°	924.2	897.1	871.4	848.5	829.6	816.3	807.8	803.9
70°	922.5	892.5	864.3	839.2	818.6	804.4	796.3	788.9
72.5°	870.2	842.8	811.5	784.1	765.5	751.9	743.7	739.8
75°	742.6	724.2	701.7	680.5	666.9	659.0	648.9	649.1
77.5°	540.7	541.3	526.0	504.3	489.0	486.2	481.7	477.2
80°	335.4	308.6	291.1	267.7	250.5	235.5	229.0	214.9
82.5°	154.7	120.8	93.7	70.9	54.5	42.6	37.3	30.5
85°	34.4	26.3	21.7	17.5	15.0	13.8	11.3	10.4
87.5°	4.8	4.2	4.0	3.7	3.1	2.3	1.7	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)