

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: NEO-RAY

Report Number: P199532

Luminaire Tested: **S125-DIP-U1-LO-30-X-X0048-1D-UDD-1-NA-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199532
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P27900 P27899)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-DIP-U1-LO-30-X-X0048-1D-UDD-1-NA-W
Description: DEFINE 5-INCH DIRECT/INDIRECT PENDANT LED LUMINAIRE
UPLIGHT LL1-3000K, NO LENS
DOWNLIGHT LLO-3000K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4893.2 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: Semi-Indirect

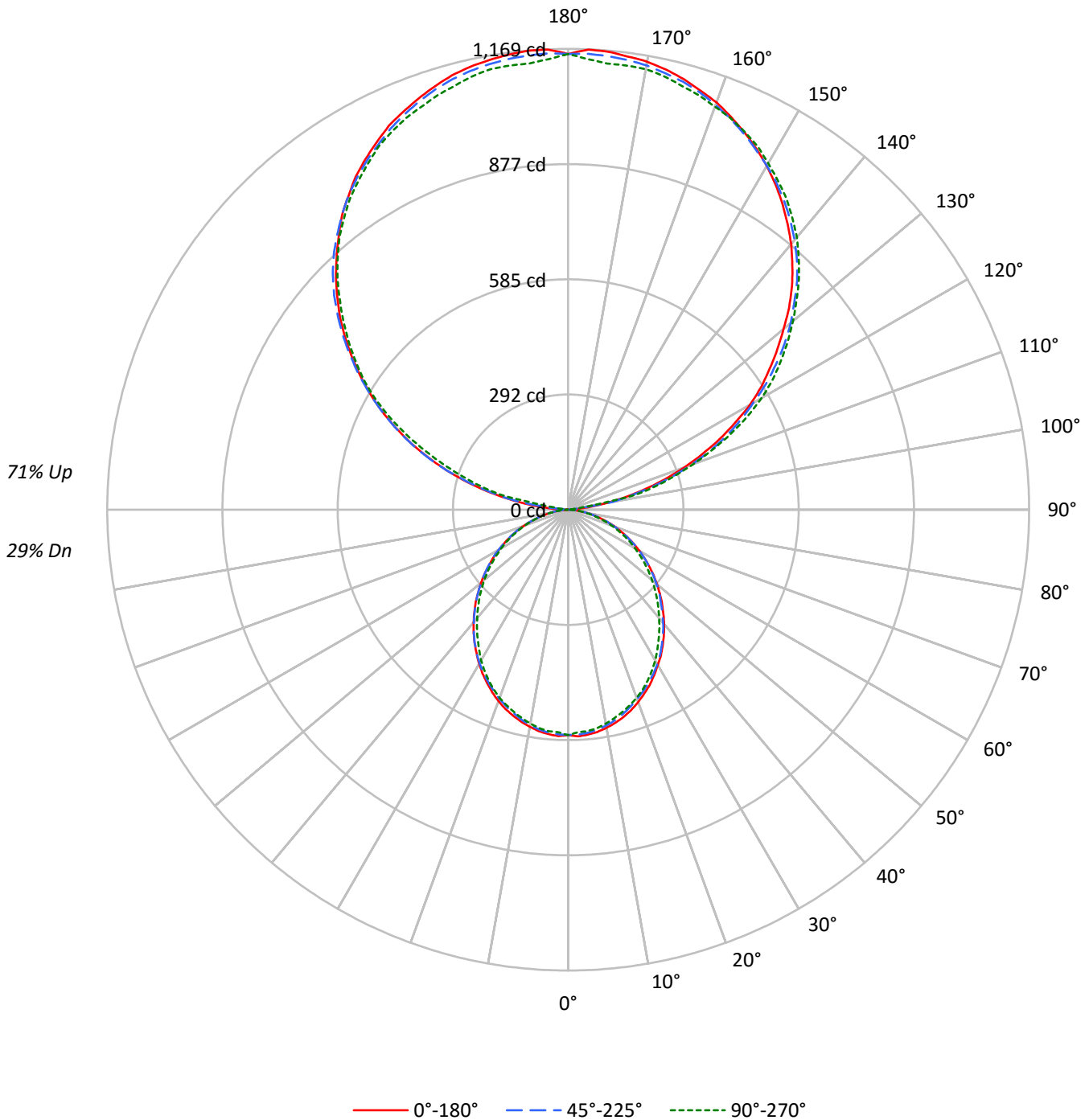
Input Watts (W): 38.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29				
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	31	25				
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	29	28	26	21				
3	77	68	61	56	69	61	55	51	49	44	41	37	34	32	26	24	22	18				
4	71	60	53	47	63	54	48	43	43	38	35	33	29	27	23	21	19	15				
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	21	19	17	13				
6	60	48	40	35	53	43	37	32	35	30	26	26	23	20	19	16	15	12				
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10				
8	51	39	32	26	46	35	29	24	28	24	20	22	18	16	16	13	12	9				
9	47	36	28	23	42	32	26	22	26	21	18	20	17	14	14	12	11	8				
10	44	32	26	21	40	29	23	19	24	19	16	18	15	13	13	11	10	8				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3616	3616	3616
5°	3608	3320	3601
10°	3550	3055	3536
15°	3477	2804	3455
20°	3382	2576	3366
25°	3281	2348	3253
30°	3155	2122	3131
35°	3034	1896	2998
40°	2900	1689	2859
45°	2757	1499	2718
50°	2607	1317	2558
55°	2446	1140	2388
60°	2273	965	2212
65°	2082	797	2009
70°	1860	618	1772
75°	1560	440	1453
80°	1181	273	1080
85°	705	119	620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	1.1
10°-20°	150.9	3.1
20°-30°	221.7	4.5
30°-40°	256.1	5.2
40°-50°	253.8	5.2
50°-60°	220.1	4.5
60°-70°	160.8	3.3
70°-80°	87.9	1.8
80°-90°	22.8	0.5
90°-100°	36.6	0.7
100°-110°	245.5	5.0
110°-120°	450.4	9.2
120°-130°	584.0	11.9
130°-140°	634.5	13.0
140°-150°	599.7	12.3
150°-160°	487.8	10.0
160°-170°	317.2	6.5
170°-180°	109.7	2.2
0°-30°	426.3	8.7
0°-40°	682.4	13.9
0°-60°	1156.3	23.6
0°-90°	1427.8	29.2
90°-120°	732.5	15.0
90°-150°	2550.7	52.1
90°-180°	3465.0	70.8
0°-180°	4893.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	572	572	572	572	572	
5°	573	568	564	567	572	54
15°	544	536	531	535	540	153
25°	490	484	478	481	486	225
35°	418	415	400	413	413	261
45°	336	332	318	330	332	260
55°	251	250	236	246	245	224
65°	166	165	156	161	161	165
75°	86	85	78	80	80	91
85°	20	21	18	18	18	22
90°	1	1	1	1	1	2
95°	24	8	8	12	56	36
105°	202	214	229	253	258	215
115°	424	442	455	477	475	418
125°	624	643	658	671	667	558
135°	803	821	827	844	833	618
145°	947	955	964	972	972	592
155°	1057	1053	1058	1066	1075	487
165°	1131	1124	1113	1131	1140	319
175°	1166	1155	1136	1157	1169	111
180°	1156	1156	1156	1156	1156	



TEST NUMBER: P199532

CATALOG NUMBER: S125-DIP-U1-LO-30-X-X0048-1D-UDD-1-NA-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6
2.5°	575.5	569.5	570.9	569.9	565.0	569.2	570.6	568.5	574.8
5°	572.7	566.7	568.1	566.7	563.9	566.0	567.4	565.3	571.6
7.5°	568.5	562.2	563.2	561.8	559.0	560.8	562.5	560.4	566.7
10°	561.5	555.5	555.9	554.2	551.0	553.1	554.9	553.1	559.4
12.5°	553.5	547.2	547.2	544.4	541.6	543.3	545.8	544.4	550.7
15°	544.0	537.4	536.3	534.6	531.4	533.5	534.6	534.2	540.5
17.5°	532.5	525.5	524.1	523.7	519.9	522.7	523.0	522.0	529.7
20°	519.2	512.5	511.5	511.1	508.0	510.1	510.1	508.7	516.7
22.5°	504.5	498.2	497.8	497.1	493.6	496.1	496.1	494.0	502.0
25°	490.1	482.4	483.5	481.7	477.5	481.0	481.4	477.9	485.9
27.5°	472.3	466.3	468.4	465.3	459.7	464.2	466.3	461.1	469.5
30°	454.8	448.5	452.0	446.4	441.5	445.7	449.5	442.9	451.3
32.5°	437.7	430.3	434.5	427.5	420.5	425.8	432.1	425.8	432.4
35°	418.1	412.1	414.6	407.2	400.2	405.5	413.2	407.2	413.2
37.5°	398.5	393.6	395.3	386.6	379.6	384.8	392.9	388.3	393.6
40°	378.2	374.7	374.7	365.9	358.9	363.8	372.2	369.8	372.9
42.5°	357.2	355.8	353.0	345.3	338.6	343.5	351.6	350.9	352.3
45°	336.5	336.5	332.0	324.0	318.4	322.9	330.3	332.0	331.7
47.5°	315.2	317.0	313.1	304.4	298.1	302.6	309.3	312.4	308.9
50°	293.9	297.0	292.1	284.4	277.4	282.3	287.9	292.1	288.3
52.5°	272.5	276.4	271.1	263.8	256.8	261.3	266.9	271.8	266.9
55°	250.8	255.4	250.5	242.8	236.1	240.3	245.9	250.8	244.9
57.5°	229.5	233.7	229.5	221.8	215.5	219.4	225.3	229.1	223.9
60°	208.2	212.7	208.5	201.2	195.2	198.4	204.0	207.8	202.6
62.5°	187.2	191.0	186.5	180.5	176.0	177.4	182.6	187.2	181.6
65°	166.5	170.0	165.1	159.9	156.0	156.7	161.3	163.7	160.6
67.5°	146.2	150.1	144.8	139.9	135.4	136.8	140.6	144.1	140.3
70°	125.9	129.8	124.2	120.0	116.1	116.8	120.0	123.8	120.0
72.5°	106.0	109.2	105.3	100.4	97.6	98.3	100.1	103.6	99.7
75°	85.7	89.2	85.0	81.2	78.4	79.1	80.1	82.9	79.8
77.5°	66.8	69.3	66.5	63.3	61.6	61.9	62.3	64.4	61.6
80°	49.3	51.4	49.7	47.2	45.8	45.8	45.8	47.6	45.1
82.5°	33.6	35.7	34.3	32.5	31.5	30.4	31.1	32.5	30.4
85°	19.9	21.7	21.0	19.2	18.5	17.8	18.5	19.2	17.5
87.5°	9.1	10.5	9.4	7.7	7.0	6.3	6.3	7.3	5.9
90°	0.7	1.7	1.4	1.0	0.7	0.7	1.0	1.4	0.7
92.5°	3.4	4.8	4.8	5.4	5.4	6.1	6.8	8.2	23.1
95°	24.5	27.2	7.5	8.2	8.2	8.9	11.6	66.0	56.5
97.5°	56.5	72.2	23.8	14.3	12.9	19.1	73.5	104.8	99.4
100°	100.8	112.3	113.7	74.2	50.4	104.2	145.0	156.6	149.1
102.5°	149.1	162.0	158.6	172.3	177.0	192.0	195.4	210.4	204.2
105°	201.5	215.8	213.8	227.4	228.8	245.8	252.6	261.4	258.0
107.5°	256.7	266.9	272.3	281.2	280.5	298.9	312.5	316.6	313.2
110°	313.2	320.0	330.2	336.3	336.3	354.7	370.4	371.1	367.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	367.0	378.5	388.1	395.6	394.2	413.9	424.8	426.9	422.8
115°	424.2	428.9	441.9	452.8	454.8	469.8	477.3	479.3	475.2
117.5°	476.6	484.1	492.2	505.2	512.0	521.5	527.0	530.4	526.3
120°	532.4	537.2	541.9	554.2	566.5	571.9	576.0	578.7	575.3
122.5°	580.7	584.2	594.4	602.5	614.8	618.9	625.0	624.3	621.6
125°	623.6	628.4	643.4	648.2	658.4	663.8	671.3	667.2	667.2
127.5°	668.6	672.7	691.7	692.4	701.9	708.1	717.6	710.8	711.5
130°	712.8	719.6	736.7	736.7	744.1	751.0	761.9	751.6	754.4
132.5°	759.8	761.9	777.5	778.2	785.0	791.8	804.7	791.1	793.8
135°	802.7	800.7	821.1	817.7	827.2	831.3	844.2	827.9	832.7
137.5°	841.5	836.7	858.5	855.1	865.3	866.0	879.6	864.0	869.4
140°	879.6	874.2	892.6	890.5	902.1	900.7	911.0	898.0	905.5
142.5°	913.7	907.5	925.2	924.6	933.4	933.4	942.3	931.4	942.3
145°	947.0	938.9	955.2	954.5	964.1	963.4	971.5	961.3	971.5
147.5°	978.4	970.2	983.1	981.8	989.9	990.6	997.4	991.3	1002.2
150°	1006.9	999.5	1007.6	1006.9	1014.4	1015.1	1021.9	1019.2	1027.4
152.5°	1032.8	1026.0	1030.1	1028.7	1039.6	1035.5	1043.7	1042.4	1051.2
155°	1056.7	1049.8	1053.2	1050.5	1058.0	1057.3	1066.2	1064.8	1075.0
157.5°	1078.4	1070.9	1073.7	1069.6	1075.0	1075.0	1085.2	1085.2	1092.7
160°	1099.5	1089.3	1092.7	1085.9	1088.0	1090.7	1102.9	1102.9	1109.8
162.5°	1114.5	1107.7	1109.8	1100.2	1102.3	1103.6	1117.9	1117.9	1126.1
165°	1130.9	1122.0	1124.1	1112.5	1113.2	1116.6	1130.9	1131.5	1140.4
167.5°	1143.8	1134.9	1134.3	1122.7	1126.1	1126.8	1140.4	1141.1	1150.6
170°	1154.0	1144.5	1144.5	1132.2	1134.9	1133.6	1147.9	1149.9	1158.1
172.5°	1159.5	1152.6	1150.6	1137.0	1136.3	1138.4	1153.3	1156.1	1164.2
175°	1166.3	1158.1	1154.7	1141.8	1136.3	1143.1	1156.7	1159.5	1169.0
177.5°	1168.3	1160.1	1157.4	1143.8	1143.8	1145.2	1158.8	1160.8	1168.3
180°	1156.1	1156.1	1156.1	1156.1	1156.1	1156.1	1156.1	1156.1	1156.1

(END OF REPORT)