

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: P199556

Luminaire Tested: **S125-DIW-ULO-1-30-0048-1D-UDD-1-NA-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199556
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-DIW-ULO-1-30-0048-1D-UDD-1-NA-W
Description: DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE
UPLIGHT LLO-3000K, NO LENS
DOWNLIGHT LL1-3000K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

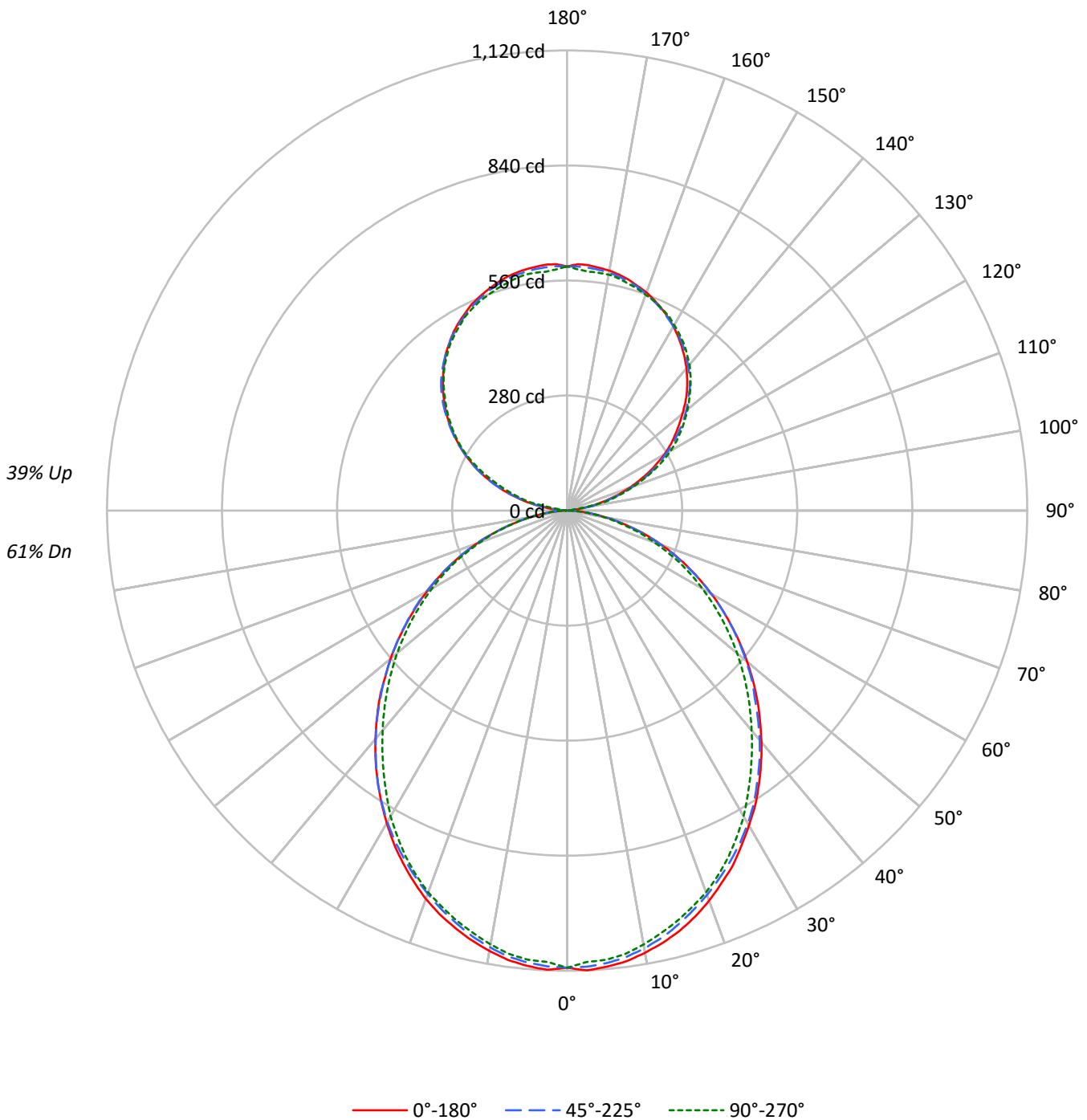
Lumens per Lamp: N/A
Luminaire Lumens: 4559.6 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: Semi-Direct

Input Watts (W): 40.1
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	89	94	90	87	83	79	76	74	68	66	65	59	57	56	52
2	91	84	78	72	85	79	73	69	69	65	61	60	57	54	52	49	47	43
3	83	74	66	60	78	69	63	57	61	56	52	53	49	46	46	43	40	37
4	76	65	57	51	71	62	54	49	54	49	44	47	43	39	41	38	35	32
5	70	58	50	44	65	55	48	42	49	43	38	43	38	34	37	33	30	27
6	65	52	44	38	60	50	42	37	44	38	33	39	34	30	34	30	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	40	32	27	49	37	30	26	33	28	24	30	25	21	26	22	19	17
10	49	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7038	7038	7038
5°	7021	6461	7009
10°	6908	5945	6882
15°	6768	5458	6724
20°	6583	5013	6551
25°	6385	4569	6330
30°	6140	4130	6093
35°	5904	3690	5835
40°	5643	3287	5565
45°	5367	2918	5289
50°	5074	2564	4977
55°	4760	2218	4647
60°	4422	1879	4303
65°	4053	1552	3908
70°	3620	1204	3449
75°	3036	855	2825
80°	2300	532	2103
85°	1374	232	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	2.3
10°-20°	293.7	6.4
20°-30°	431.4	9.5
30°-40°	498.3	10.9
40°-50°	493.9	10.8
50°-60°	428.4	9.4
60°-70°	312.9	6.9
70°-80°	171.0	3.8
80°-90°	44.4	1.0
90°-100°	19.0	0.4
100°-110°	126.2	2.8
110°-120°	231.5	5.1
120°-130°	300.1	6.6
130°-140°	326.0	7.2
140°-150°	308.1	6.8
150°-160°	250.7	5.5
160°-170°	163.0	3.6
170°-180°	56.4	1.2
0°-30°	829.7	18.2
0°-40°	1328.0	29.1
0°-60°	2250.3	49.4
0°-90°	2778.7	60.9
90°-120°	376.6	8.3
90°-150°	1310.9	28.7
90°-180°	1781.0	39.1
0°-180°	4559.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1112	1112	1112	1112	1112	
5°	1114	1106	1098	1104	1112	106
15°	1059	1044	1034	1040	1052	298
25°	954	941	929	937	946	438
35°	814	807	779	804	804	509
45°	655	646	620	643	645	505
55°	488	488	460	479	477	437
65°	324	321	304	314	312	321
75°	167	165	152	156	155	178
85°	39	41	36	36	34	44
90°	1	3	1	2	1	3
95°	13	4	4	6	29	19
105°	104	110	118	130	133	110
115°	218	227	234	245	244	215
125°	320	331	338	345	343	287
135°	412	422	425	434	428	317
145°	487	491	495	499	499	304
155°	543	541	544	548	552	250
165°	581	578	572	581	586	164
175°	599	593	584	594	601	57
180°	594	594	594	594	594	



TEST NUMBER: P199556

CATALOG NUMBER: S125-DIW-ULO-1-30-0048-1D-UDD-1-NA-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5
2.5°	1120.0	1108.4	1111.1	1109.1	1099.5	1107.7	1110.4	1106.4	1118.6
5°	1114.5	1102.9	1105.7	1102.9	1097.5	1101.6	1104.3	1100.2	1112.5
7.5°	1106.4	1094.1	1096.1	1093.4	1088.0	1091.4	1094.8	1090.7	1102.9
10°	1092.7	1081.2	1081.8	1078.4	1072.3	1076.4	1079.8	1076.4	1088.6
12.5°	1077.1	1064.8	1064.8	1059.4	1053.9	1057.3	1062.1	1059.4	1071.6
15°	1058.7	1045.8	1043.7	1040.3	1034.2	1038.3	1040.3	1039.6	1051.9
17.5°	1036.2	1022.6	1019.9	1019.2	1011.7	1017.2	1017.8	1015.8	1030.8
20°	1010.4	997.4	995.4	994.7	988.6	992.7	992.7	989.9	1005.6
22.5°	981.8	969.5	968.8	967.5	960.7	965.4	965.4	961.3	977.0
25°	953.8	938.9	940.9	937.5	929.3	936.1	936.8	930.0	945.7
27.5°	919.1	907.5	911.6	905.5	894.6	903.5	907.5	897.3	913.7
30°	885.1	872.8	879.6	868.7	859.2	867.4	874.9	861.9	878.3
32.5°	851.7	837.4	845.6	832.0	818.4	828.6	840.8	828.6	841.5
35°	813.6	802.0	806.8	792.5	778.9	789.1	804.1	792.5	804.1
37.5°	775.5	765.9	769.3	752.3	738.7	748.9	764.6	755.7	765.9
40°	736.0	729.2	729.2	712.1	698.5	708.1	724.4	719.6	725.8
42.5°	695.1	692.4	687.0	672.0	659.0	668.6	684.2	682.9	685.6
45°	655.0	655.0	646.1	630.4	619.6	628.4	642.7	646.1	645.4
47.5°	613.4	616.8	609.3	592.3	580.1	588.9	601.9	608.0	601.2
50°	571.9	578.0	568.5	553.5	539.9	549.4	560.3	568.5	561.0
52.5°	530.4	537.9	527.6	513.3	499.7	508.6	519.5	529.0	519.5
55°	488.2	497.0	487.5	472.5	459.6	467.7	478.6	488.2	476.6
57.5°	446.6	454.8	446.6	431.6	419.4	426.9	438.5	445.9	435.7
60°	405.1	413.9	405.8	391.5	379.9	386.0	396.9	404.4	394.2
62.5°	364.2	371.7	362.9	351.3	342.5	345.2	355.4	364.2	353.4
65°	324.1	330.9	321.4	311.1	303.7	305.0	313.9	318.6	312.5
67.5°	284.6	292.1	281.9	272.3	263.5	266.2	273.7	280.5	273.0
70°	245.1	252.6	241.7	233.5	226.0	227.4	233.5	241.0	233.5
72.5°	206.3	212.4	204.9	195.4	190.0	191.3	194.7	201.5	194.0
75°	166.8	173.6	165.4	158.0	152.5	153.9	155.9	161.4	155.2
77.5°	130.0	134.8	129.4	123.2	119.8	120.5	121.2	125.3	119.8
80°	96.0	100.1	96.7	91.9	89.2	89.2	89.2	92.6	87.8
82.5°	65.4	69.4	66.7	63.3	61.3	59.2	60.6	63.3	59.2
85°	38.8	42.2	40.8	37.4	36.1	34.7	36.1	37.4	34.0
87.5°	17.7	20.4	18.4	15.0	13.6	12.3	12.3	14.3	11.6
90°	1.4	3.4	2.7	2.0	1.4	1.4	2.0	2.7	1.4
92.5°	1.7	2.4	2.4	2.8	2.8	3.1	3.5	4.2	11.9
95°	12.6	14.0	3.8	4.2	4.2	4.5	5.9	33.9	29.0
97.5°	29.0	37.1	12.2	7.3	6.6	9.8	37.8	53.9	51.1
100°	51.8	57.7	58.4	38.1	25.9	53.5	74.5	80.5	76.6
102.5°	76.6	83.3	81.5	88.5	91.0	98.7	100.4	108.1	105.0
105°	103.6	110.9	109.9	116.8	117.5	126.3	129.8	134.3	132.6
107.5°	131.9	137.1	139.9	144.5	144.1	153.6	160.6	162.7	160.9
110°	160.9	164.4	169.7	172.8	172.8	182.3	190.3	190.7	188.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	188.6	194.5	199.4	203.3	202.6	212.7	218.3	219.4	217.3
115°	218.0	220.4	227.0	232.6	233.7	241.4	245.2	246.3	244.2
117.5°	244.9	248.7	252.9	259.6	263.1	268.0	270.8	272.5	270.4
120°	273.6	276.0	278.5	284.8	291.1	293.9	296.0	297.4	295.6
122.5°	298.4	300.2	305.4	309.6	315.9	318.0	321.2	320.8	319.4
125°	320.5	322.9	330.6	333.1	338.3	341.1	344.9	342.8	342.8
127.5°	343.5	345.6	355.4	355.8	360.7	363.8	368.7	365.2	365.6
130°	366.3	369.8	378.5	378.5	382.4	385.9	391.5	386.2	387.6
132.5°	390.4	391.5	399.5	399.9	403.4	406.9	413.5	406.5	407.9
135°	412.5	411.4	421.9	420.2	425.1	427.2	433.8	425.4	427.9
137.5°	432.4	430.0	441.2	439.4	444.6	445.0	452.0	444.0	446.7
140°	452.0	449.2	458.6	457.6	463.5	462.8	468.1	461.4	465.3
142.5°	469.5	466.3	475.4	475.1	479.6	479.6	484.2	478.6	484.2
145°	486.6	482.4	490.8	490.5	495.4	495.0	499.2	494.0	499.2
147.5°	502.7	498.5	505.2	504.5	508.7	509.0	512.5	509.4	515.0
150°	517.4	513.6	517.8	517.4	521.3	521.6	525.1	523.7	527.9
152.5°	530.7	527.2	529.3	528.6	534.2	532.1	536.3	535.6	540.2
155°	543.0	539.5	541.2	539.8	543.7	543.3	547.9	547.2	552.4
157.5°	554.2	550.3	551.7	549.6	552.4	552.4	557.6	557.6	561.5
160°	565.0	559.7	561.5	558.0	559.0	560.4	566.7	566.7	570.2
162.5°	572.7	569.2	570.2	565.3	566.4	567.1	574.4	574.4	578.6
165°	581.1	576.5	577.6	571.6	572.0	573.7	581.1	581.4	586.0
167.5°	587.7	583.2	582.8	576.9	578.6	579.0	586.0	586.3	591.2
170°	593.0	588.1	588.1	581.8	583.2	582.5	589.8	590.9	595.1
172.5°	595.8	592.3	591.2	584.2	583.9	584.9	592.6	594.0	598.2
175°	599.3	595.1	593.3	586.7	583.9	587.4	594.4	595.8	600.7
177.5°	600.3	596.1	594.7	587.7	587.7	588.4	595.4	596.5	600.3
180°	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0

(END OF REPORT)