

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: P199536

Luminaire Tested: **S125-DIP-U1-LO-40-X-X0048-1D-UDD-1-NA-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199536
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-40-X-X0048-1D-UDD-1-NA-W
Description: DEFINE 5-INCH DIRECT/INDIRECT PENDANT LED LUMINAIRE
UPLIGHT LL1-4000K, NO LENS
DOWNLIGHT LLO-4000K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5153.1 lumens
Efficiency: N/A
Efficacy: 132.8 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

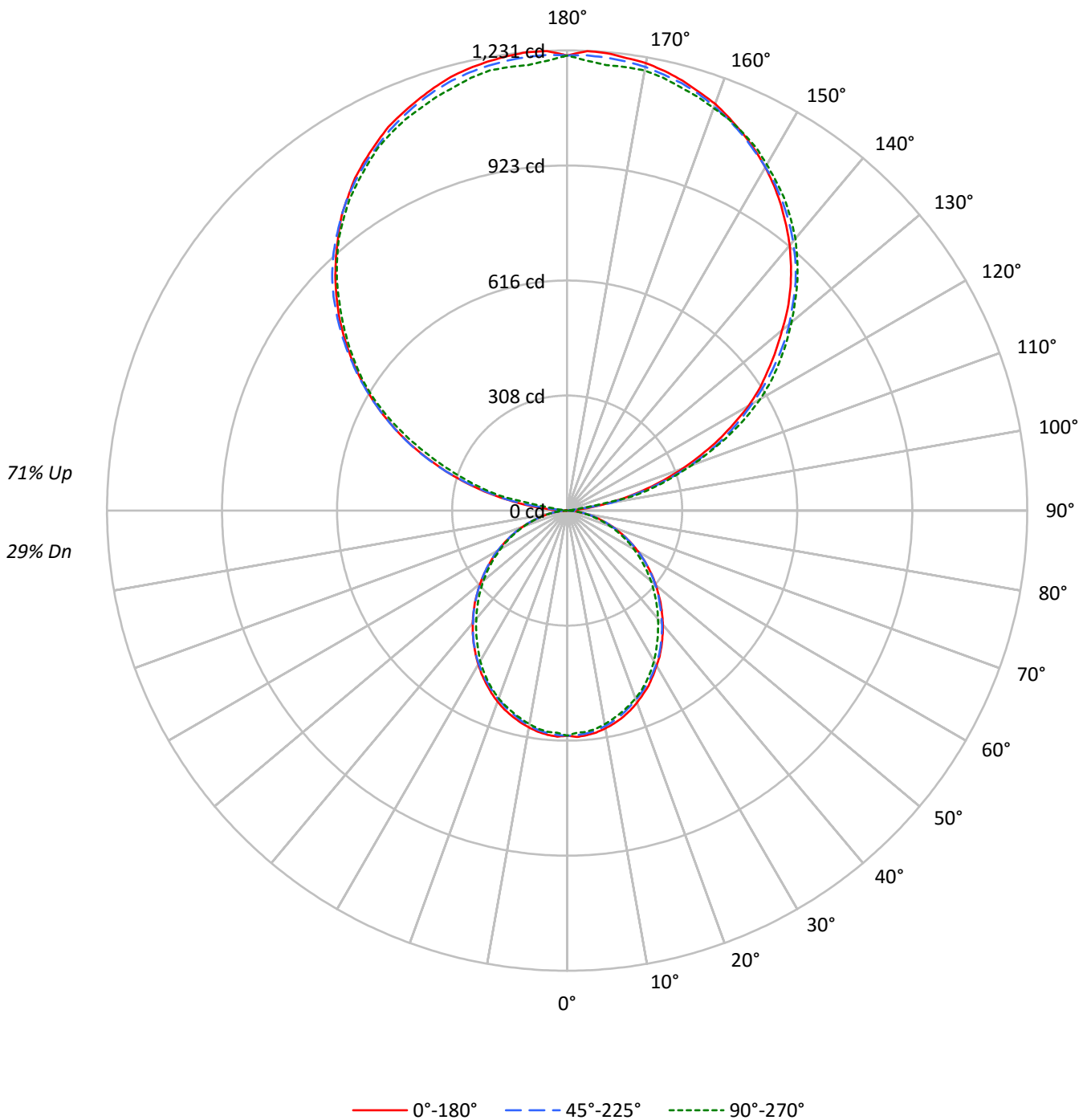
Input Watts (W): 38.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	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°	3809	3809	3809
5°	3800	3496	3793
10°	3738	3217	3724
15°	3662	2953	3639
20°	3562	2713	3545
25°	3455	2473	3425
30°	3322	2235	3297
35°	3195	1997	3157
40°	3054	1779	3011
45°	2904	1579	2862
50°	2746	1388	2693
55°	2576	1200	2515
60°	2393	1017	2328
65°	2194	839	2115
70°	1959	651	1867
75°	1644	463	1529
80°	1243	288	1138
85°	744	125	652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	1.1
10°-20°	158.9	3.1
20°-30°	233.5	4.5
30°-40°	269.6	5.2
40°-50°	267.3	5.2
50°-60°	231.8	4.5
60°-70°	169.3	3.3
70°-80°	92.5	1.8
80°-90°	24.1	0.5
90°-100°	38.5	0.7
100°-110°	258.6	5.0
110°-120°	474.3	9.2
120°-130°	615.0	11.9
130°-140°	668.2	13.0
140°-150°	631.5	12.3
150°-160°	513.7	10.0
160°-170°	334.1	6.5
170°-180°	115.5	2.2
0°-30°	449.0	8.7
0°-40°	718.6	13.9
0°-60°	1217.7	23.6
0°-90°	1503.7	29.2
90°-120°	771.4	15.0
90°-150°	2686.1	52.1
90°-180°	3649.0	70.8
0°-180°	5153.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	602	602	602	602	602	
5°	603	598	594	598	602	57
15°	573	565	560	563	569	161
25°	516	509	503	507	512	237
35°	440	437	422	435	435	275
45°	354	350	335	348	349	273
55°	264	264	249	259	258	236
65°	175	174	164	170	169	174
75°	90	90	82	84	84	96
85°	21	22	20	20	18	24
90°	1	2	1	1	1	2
95°	26	8	9	12	60	38
105°	212	225	241	266	272	226
115°	447	465	479	503	500	440
125°	657	678	693	707	703	588
135°	845	865	871	889	877	651
145°	997	1006	1015	1023	1023	624
155°	1113	1109	1114	1123	1132	513
165°	1191	1184	1172	1191	1201	336
175°	1228	1216	1197	1218	1231	117
180°	1217	1217	1217	1217	1217	



TEST NUMBER: P199536

CATALOG NUMBER: S125-DIP-U1-LO-40-X-X0048-1D-UDD-1-NA-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
2.5°	606.1	599.8	601.3	600.2	595.0	599.4	600.9	598.7	605.3
5°	603.1	596.8	598.3	596.8	593.9	596.1	597.6	595.4	602.0
7.5°	598.7	592.1	593.2	591.7	588.7	590.6	592.4	590.2	596.8
10°	591.3	585.1	585.4	583.6	580.3	582.5	584.3	582.5	589.1
12.5°	582.8	576.2	576.2	573.3	570.3	572.2	574.7	573.3	579.9
15°	572.9	565.9	564.8	562.9	559.6	561.8	562.9	562.6	569.2
17.5°	560.7	553.4	551.9	551.5	547.5	550.4	550.8	549.7	557.8
20°	546.7	539.7	538.6	538.3	534.9	537.2	537.2	535.7	544.2
22.5°	531.3	524.6	524.3	523.5	519.8	522.4	522.4	520.2	528.7
25°	516.2	508.1	509.2	507.3	502.9	506.6	506.9	503.3	511.7
27.5°	497.4	491.1	493.3	490.0	484.1	488.9	491.1	485.6	494.4
30°	478.9	472.3	476.0	470.1	464.9	469.4	473.4	466.4	475.3
32.5°	460.9	453.2	457.6	450.2	442.8	448.4	455.0	448.4	455.4
35°	440.3	434.0	436.6	428.8	421.5	427.0	435.1	428.8	435.1
37.5°	419.6	414.5	416.3	407.1	399.7	405.3	413.7	408.9	414.5
40°	398.3	394.6	394.6	385.4	378.0	383.2	392.0	389.4	392.7
42.5°	376.2	374.7	371.7	363.6	356.6	361.8	370.3	369.5	371.0
45°	354.4	354.4	349.6	341.2	335.3	340.1	347.8	349.6	349.3
47.5°	331.9	333.8	329.7	320.5	313.9	318.7	325.7	329.0	325.3
50°	309.5	312.8	307.6	299.5	292.2	297.3	303.2	307.6	303.6
52.5°	287.0	291.1	285.5	277.8	270.4	275.2	281.1	286.3	281.1
55°	264.2	268.9	263.8	255.7	248.7	253.1	259.0	264.2	257.9
57.5°	241.7	246.1	241.7	233.6	226.9	231.0	237.3	241.3	235.8
60°	219.2	224.0	219.6	211.8	205.6	208.9	214.8	218.8	213.3
62.5°	197.1	201.2	196.4	190.1	185.3	186.8	192.3	197.1	191.2
65°	175.4	179.1	173.9	168.4	164.3	165.1	169.8	172.4	169.1
67.5°	154.0	158.1	152.5	147.4	142.6	144.1	148.1	151.8	147.7
70°	132.6	136.7	130.8	126.4	122.3	123.1	126.4	130.4	126.4
72.5°	111.6	114.9	110.9	105.7	102.8	103.5	105.4	109.1	105.0
75°	90.3	93.9	89.5	85.5	82.5	83.3	84.4	87.3	84.0
77.5°	70.4	72.9	70.0	66.7	64.8	65.2	65.6	67.8	64.8
80°	51.9	54.2	52.3	49.7	48.3	48.3	48.3	50.1	47.5
82.5°	35.4	37.6	36.1	34.3	33.2	32.1	32.8	34.3	32.1
85°	21.0	22.8	22.1	20.3	19.5	18.8	19.5	20.3	18.4
87.5°	9.6	11.1	9.9	8.1	7.4	6.6	6.6	7.7	6.3
90°	0.7	1.8	1.5	1.1	0.7	0.7	1.1	1.5	0.7
92.5°	3.6	5.0	5.0	5.7	5.7	6.5	7.2	8.6	24.4
95°	25.8	28.7	7.9	8.6	8.6	9.3	12.2	69.5	59.5
97.5°	59.5	76.0	25.1	15.1	13.6	20.1	77.4	110.4	104.7
100°	106.1	118.3	119.7	78.2	53.1	109.7	152.7	164.9	157.0
102.5°	157.0	170.6	167.1	181.4	186.4	202.2	205.8	221.5	215.1
105°	212.2	227.3	225.1	239.5	240.9	258.8	266.0	275.3	271.7
107.5°	270.3	281.1	286.8	296.1	295.4	314.8	329.1	333.4	329.8
110°	329.8	337.0	347.7	354.2	354.2	373.5	390.0	390.8	387.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	386.5	398.6	408.7	416.6	415.1	435.9	447.4	449.5	445.2
115°	446.7	451.7	465.3	476.8	478.9	494.7	502.6	504.8	500.5
117.5°	501.9	509.8	518.4	532.0	539.2	549.2	554.9	558.5	554.2
120°	560.7	565.7	570.7	583.6	596.5	602.3	606.6	609.4	605.9
122.5°	611.6	615.2	625.9	634.5	647.4	651.7	658.2	657.5	654.6
125°	656.8	661.8	677.6	682.6	693.3	699.1	706.9	702.6	702.6
127.5°	704.1	708.4	728.5	729.2	739.2	745.7	755.7	748.5	749.2
130°	750.7	757.9	775.8	775.8	783.7	790.8	802.3	791.6	794.4
132.5°	800.2	802.3	818.8	819.5	826.7	833.9	847.5	833.1	836.0
135°	845.3	843.2	864.7	861.1	871.1	875.4	889.1	871.9	876.9
137.5°	886.2	881.2	904.1	900.5	911.3	912.0	926.3	909.9	915.6
140°	926.3	920.6	940.0	937.8	950.0	948.6	959.3	945.7	953.6
142.5°	962.2	955.7	974.4	973.7	983.0	983.0	992.3	980.8	992.3
145°	997.3	988.7	1005.9	1005.2	1015.3	1014.5	1023.1	1012.4	1023.1
147.5°	1030.3	1021.7	1035.3	1033.9	1042.5	1043.2	1050.4	1043.9	1055.4
150°	1060.4	1052.5	1061.1	1060.4	1068.3	1069.0	1076.2	1073.3	1081.9
152.5°	1087.7	1080.5	1084.8	1083.4	1094.8	1090.5	1099.1	1097.7	1107.0
155°	1112.8	1105.6	1109.2	1106.3	1114.2	1113.5	1122.8	1121.4	1132.1
157.5°	1135.7	1127.8	1130.7	1126.4	1132.1	1132.1	1142.9	1142.9	1150.8
160°	1157.9	1147.2	1150.8	1143.6	1145.7	1148.6	1161.5	1161.5	1168.7
162.5°	1173.7	1166.5	1168.7	1158.6	1160.8	1162.2	1177.3	1177.3	1185.9
165°	1190.9	1181.6	1183.7	1171.6	1172.3	1175.9	1190.9	1191.6	1201.0
167.5°	1204.5	1195.2	1194.5	1182.3	1185.9	1186.6	1201.0	1201.7	1211.7
170°	1215.3	1205.3	1205.3	1192.3	1195.2	1193.8	1208.8	1211.0	1219.6
172.5°	1221.0	1213.9	1211.7	1197.4	1196.6	1198.8	1214.6	1217.4	1226.0
175°	1228.2	1219.6	1216.0	1202.4	1196.6	1203.8	1218.2	1221.0	1231.1
177.5°	1230.3	1221.7	1218.9	1204.5	1204.5	1206.0	1220.3	1222.5	1230.3
180°	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4

(END OF REPORT)