

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1027769

Luminaire Tested: S125DIP-B375D1090UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027769
REPORT IS A COMBINATION OF REPORTS P1001855 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1090UB35-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

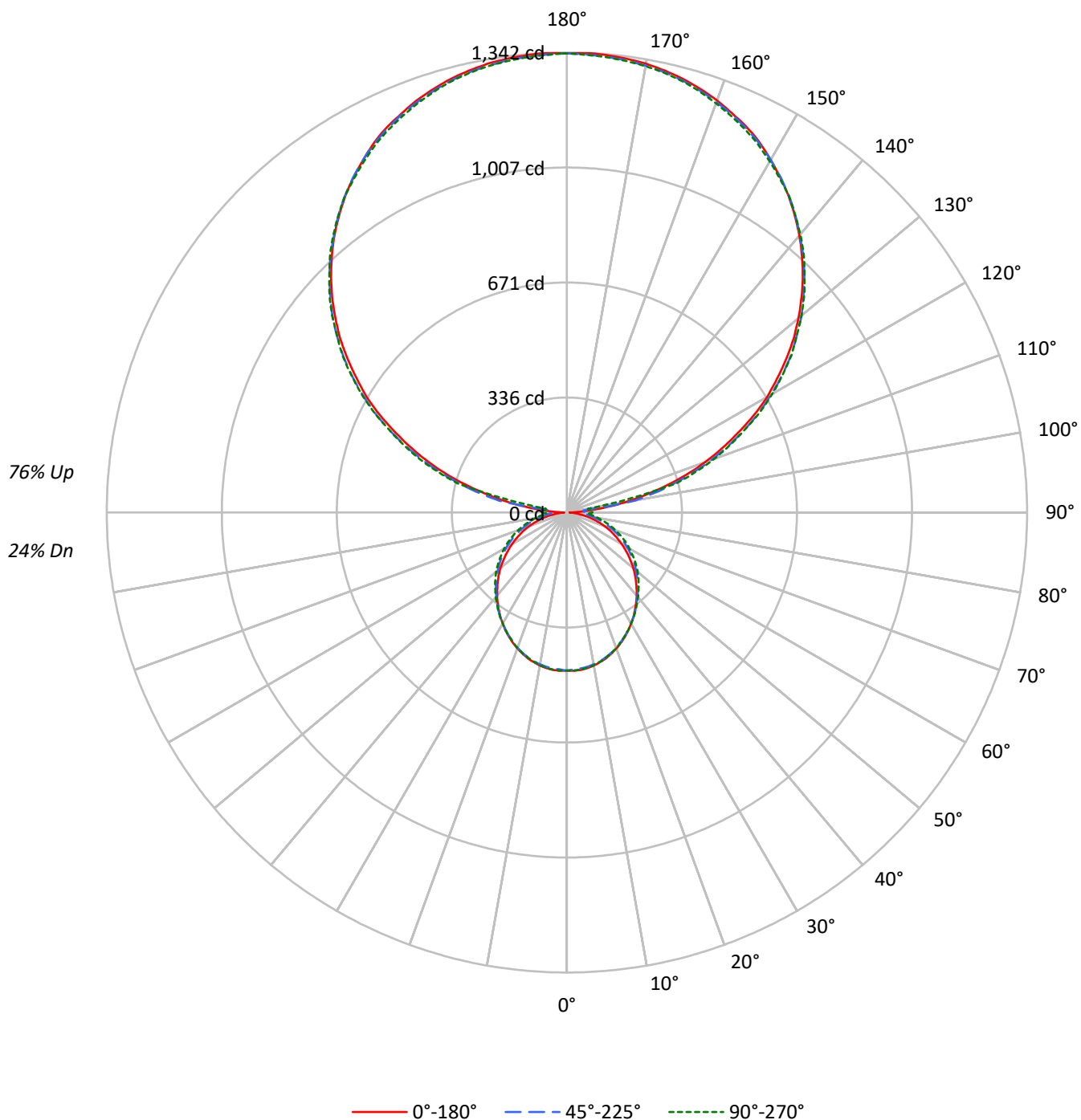
Lumens per Lamp: N/A
Luminaire Lumens: 5544.0 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32
1	92	87	83	80	81	78	75	72	60	58	56	43	42	41	28	27	27
2	83	76	70	65	74	68	63	58	52	49	46	38	36	34	24	23	22
3	76	67	59	54	67	59	53	49	46	42	38	33	31	28	22	20	19
4	69	59	51	45	61	52	46	41	41	36	32	29	26	24	19	17	16
5	63	52	44	38	56	47	40	35	36	31	28	26	23	21	17	15	14
6	58	47	39	33	51	42	35	30	32	27	24	24	20	18	16	14	12
7	54	42	34	29	47	37	31	26	29	24	21	21	18	16	14	12	11
8	50	38	30	25	44	34	27	23	26	22	18	19	16	14	13	11	9
9	46	34	27	22	41	31	25	20	24	20	16	18	15	12	12	10	8
10	43	31	24	20	38	28	22	18	22	18	14	16	13	11	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2954	2954	2954
5°	2958	2892	2899
10°	2936	2833	2825
15°	2900	2764	2734
20°	2852	2681	2643
25°	2795	2593	2534
30°	2725	2497	2434
35°	2661	2408	2342
40°	2595	2315	2250
45°	2521	2234	2166
50°	2450	2146	2092
55°	2364	2062	2004
60°	2270	1966	1915
65°	2171	1866	1815
70°	2060	1731	1709
75°	1884	1598	1582
80°	1651	1436	1440
85°	1424	1307	1365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2521 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	0.8
10°-20°	123.8	2.2
20°-30°	184.1	3.3
30°-40°	218.1	3.9
40°-50°	225.5	4.1
50°-60°	207.7	3.7
60°-70°	167.9	3.0
70°-80°	112.3	2.0
80°-90°	60.0	1.1
90°-100°	78.2	1.4
100°-110°	326.4	5.9
110°-120°	560.5	10.1
120°-130°	707.8	12.8
130°-140°	755.4	13.6
140°-150°	706.1	12.7
150°-160°	570.5	10.3
160°-170°	368.9	6.7
170°-180°	127.2	2.3
0°-30°	351.6	6.3
0°-40°	569.7	10.3
0°-60°	1002.8	18.1
0°-90°	1343.1	24.2
90°-120°	965.0	17.4
90°-150°	3134.3	56.5
90°-180°	4201.0	75.8
0°-180°	5544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	461	460	457	460	460	44
15°	440	441	438	440	438	124
25°	400	401	399	400	398	184
35°	346	349	348	349	349	217
45°	285	290	292	296	296	220
55°	219	226	234	239	240	196
65°	151	161	172	179	181	150
75°	83	95	109	118	121	88
85°	25	40	56	66	69	26
90°	8	31	53	68	74	8
95°	62	71	49	64	67	74
105°	296	307	321	330	332	314
115°	551	559	572	576	573	546
125°	781	788	797	800	799	698
135°	973	978	980	983	980	750
145°	1127	1129	1129	1132	1128	705
155°	1241	1235	1237	1240	1232	572
165°	1310	1304	1304	1310	1303	370
175°	1339	1333	1334	1342	1333	128
180°	1339	1339	1339	1339	1339	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461.0	461.0	461.0	461.0	461.0
2.5°	462.3	461.4	458.3	461.4	461.0
5°	461.0	460.1	456.9	460.5	460.1
7.5°	457.8	457.4	454.2	457.4	456.9
10°	453.3	453.3	449.7	452.8	452.4
12.5°	447.0	447.4	444.7	447.0	445.6
15°	440.2	440.6	437.5	440.2	438.4
17.5°	431.6	432.5	429.3	431.6	430.2
20°	422.1	423.0	419.8	421.2	421.2
22.5°	411.3	413.1	409.4	411.3	409.9
25°	400.0	401.3	398.6	400.4	398.2
27.5°	387.8	389.6	386.4	387.8	386.9
30°	373.7	376.5	373.7	374.6	374.2
32.5°	361.1	363.4	361.5	362.4	362.0
35°	346.2	349.3	348.0	349.3	349.3
37.5°	331.7	334.4	334.0	335.8	335.3
40°	316.8	320.4	320.0	321.8	322.7
42.5°	300.5	305.5	306.9	309.1	309.1
45°	285.2	290.1	292.4	295.6	296.0
47.5°	269.4	273.9	277.5	282.0	282.9
50°	253.1	258.1	263.0	268.0	269.4
52.5°	235.9	242.2	248.6	254.0	254.9
55°	219.2	226.4	233.6	238.6	240.4
57.5°	202.0	210.6	218.7	224.2	225.5
60°	184.8	193.9	202.9	209.7	211.1
62.5°	168.1	177.2	187.1	194.8	196.6
65°	150.9	161.3	172.2	179.0	180.8
67.5°	135.1	145.1	155.9	164.1	166.3
70°	117.5	127.9	139.6	148.2	150.9
72.5°	100.3	111.2	124.3	133.8	135.6
75°	83.2	94.9	109.4	118.4	120.7
77.5°	66.4	80.0	93.5	103.5	105.3
80°	51.1	64.6	80.0	89.9	91.7
82.5°	37.1	51.5	67.3	76.8	80.4
85°	24.9	39.8	55.6	65.5	69.1
87.5°	15.8	30.3	45.6	56.0	59.2
90°	8.2	30.6	53.0	68.3	74.4
92.5°	25.2	29.3	51.2	66.0	70.2
95°	62.5	71.2	48.9	63.7	66.9
97.5°	111.6	128.5	49.1	60.6	64.6
100°	170.8	183.3	201.6	63.2	61.9
102.5°	230.9	243.4	259.4	270.5	189.8
105°	296.0	307.2	320.8	329.8	332.0
107.5°	363.0	369.3	384.4	394.5	393.2
110°	428.1	433.5	448.1	453.7	457.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	489.7	496.7	509.8	514.1	515.2
115°	550.7	558.9	571.6	575.8	572.6
117.5°	614.9	617.1	632.3	634.1	635.3
120°	674.4	674.7	688.1	693.8	691.6
122.5°	726.5	732.0	742.9	748.1	744.9
125°	781.1	787.7	796.7	799.9	799.2
127.5°	833.4	837.8	844.5	849.4	844.1
130°	881.0	885.5	892.8	896.2	893.4
132.5°	928.2	934.1	935.7	942.1	938.9
135°	972.9	978.4	979.5	983.4	979.8
137.5°	1014.6	1020.1	1019.9	1025.3	1022.2
140°	1054.9	1056.8	1056.2	1063.2	1059.1
142.5°	1091.6	1092.1	1094.1	1098.2	1094.0
145°	1127.3	1128.8	1128.8	1132.1	1128.0
147.5°	1158.6	1158.6	1159.6	1161.5	1155.4
150°	1188.4	1186.4	1188.4	1190.4	1182.9
152.5°	1217.2	1212.2	1214.2	1216.2	1209.2
155°	1241.0	1235.0	1237.0	1240.0	1232.1
157.5°	1259.9	1256.9	1256.9	1259.9	1251.9
160°	1279.7	1273.8	1274.8	1278.7	1270.8
162.5°	1295.6	1289.6	1290.6	1296.6	1287.7
165°	1309.5	1303.5	1304.5	1310.5	1302.6
167.5°	1320.4	1314.5	1315.5	1322.4	1313.5
170°	1329.4	1322.4	1323.4	1331.3	1322.4
172.5°	1335.3	1328.4	1330.4	1337.3	1328.4
175°	1339.3	1333.3	1334.3	1342.3	1333.3
177.5°	1342.3	1336.3	1337.3	1344.3	1336.3
180°	1339.3	1339.3	1339.3	1339.3	1339.3

(END OF REPORT)