

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: P1027815

Luminaire Tested: S125DIP-B375D1270UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027815
REPORT IS A COMBINATION OF REPORTS P1001916 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1270UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

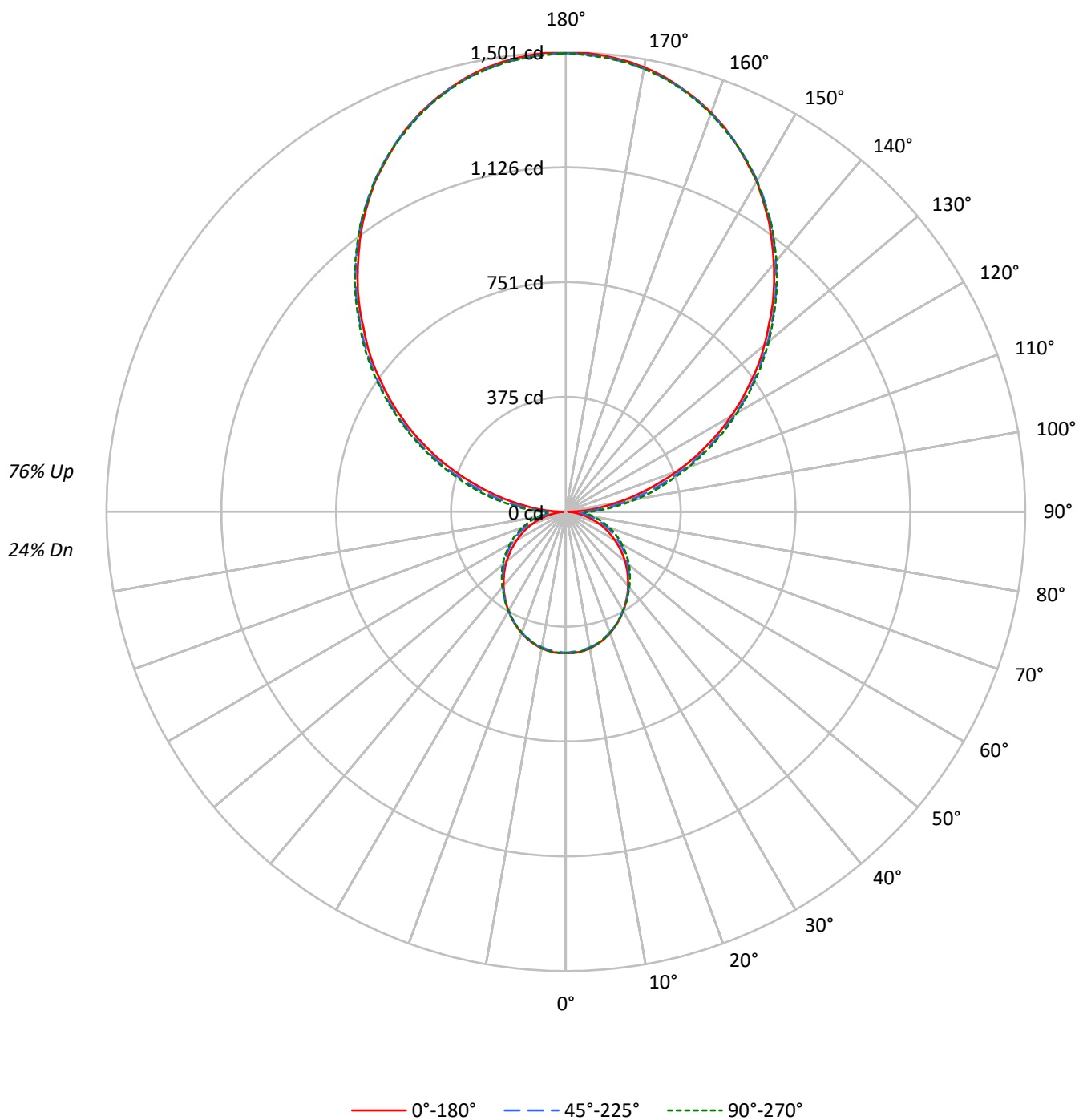
Lumens per Lamp: N/A
Luminaire Lumens: 5613.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	74	72	60	57	56	43	42	40	28	27	26
2	83	76	70	65	74	68	63	58	52	49	46	38	35	33	24	23	22
3	76	67	59	54	67	59	53	48	46	42	38	33	30	28	21	20	18
4	69	59	51	45	61	52	46	41	40	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	46	39	33	51	42	35	30	32	27	24	24	20	18	15	13	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	24	20	24	19	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	4.0
50°-60°	207.7	3.7
60°-70°	167.9	3.0
70°-80°	112.3	2.0
80°-90°	60.4	1.1
90°-100°	132.4	2.4
100°-110°	320.2	5.7
110°-120°	518.3	9.2
120°-130°	670.2	11.9
130°-140°	744.7	13.3
140°-150°	726.8	12.9
150°-160°	609.8	10.9
160°-170°	405.4	7.2
170°-180°	141.9	2.5
0°-30°	351.6	6.3
0°-40°	569.7	10.1
0°-60°	1002.8	17.9
0°-90°	1343.4	23.9
90°-120°	970.8	17.3
90°-150°	3112.5	55.5
90°-180°	4270.0	76.1
0°-180°	5613.0	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	32	56	72	79	10
95°	82	96	123	141	146	84
105°	270	283	304	320	326	288
115°	505	513	527	534	536	500
125°	735	742	752	757	758	659
135°	955	962	966	972	969	736
145°	1156	1160	1164	1166	1164	723
155°	1323	1323	1324	1328	1323	609
165°	1438	1436	1437	1442	1434	406
175°	1495	1490	1490	1498	1489	142
180°	1499	1499	1499	1499	1499	

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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°	8.4	32.2	55.8	72.0	78.6
92.5°	41.3	60.2	86.6	104.7	110.2
95°	81.7	95.7	122.8	140.9	146.4
97.5°	122.0	134.1	165.3	181.8	186.1
100°	168.3	177.8	207.3	227.3	232.4
102.5°	217.9	232.4	252.2	273.0	279.2
105°	270.0	283.0	303.6	319.6	326.3
107.5°	326.7	338.8	357.7	370.3	373.0
110°	385.7	397.0	413.1	425.2	427.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	446.4	452.7	469.6	479.0	479.7
115°	505.4	513.2	527.3	534.3	535.8
117.5°	565.6	569.0	582.6	591.5	590.0
120°	621.6	628.7	640.3	648.0	646.0
122.5°	681.7	683.4	696.8	702.8	702.0
125°	735.4	742.0	752.2	757.0	758.2
127.5°	794.5	797.5	806.3	812.0	812.3
130°	847.0	852.3	860.9	866.2	866.0
132.5°	898.9	909.4	912.8	918.0	916.3
135°	954.9	961.5	965.8	971.7	969.3
137.5°	1007.4	1014.0	1018.1	1024.7	1020.7
140°	1057.1	1063.0	1066.9	1074.2	1070.2
142.5°	1107.3	1111.5	1116.1	1121.4	1117.4
145°	1156.3	1160.4	1163.9	1166.2	1164.5
147.5°	1201.3	1204.8	1207.1	1211.5	1203.1
150°	1246.8	1245.6	1250.3	1250.3	1248.4
152.5°	1284.1	1286.4	1287.6	1291.1	1286.4
155°	1322.6	1322.6	1323.7	1328.4	1322.6
157.5°	1357.6	1355.2	1356.4	1361.0	1352.9
160°	1387.9	1384.4	1385.5	1390.2	1384.4
162.5°	1414.7	1412.4	1412.4	1418.2	1411.2
165°	1438.0	1435.7	1436.9	1441.5	1434.5
167.5°	1459.0	1454.4	1454.4	1461.3	1454.4
170°	1475.3	1470.7	1470.7	1477.7	1469.5
172.5°	1487.0	1482.3	1482.3	1489.3	1482.3
175°	1495.2	1490.5	1490.5	1497.5	1489.3
177.5°	1501.0	1496.3	1495.2	1502.2	1494.0
180°	1498.7	1498.7	1498.7	1498.7	1498.7

(END OF REPORT)