

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: P1027814

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027814
REPORT IS A COMBINATION OF REPORTS P1001915 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-D
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

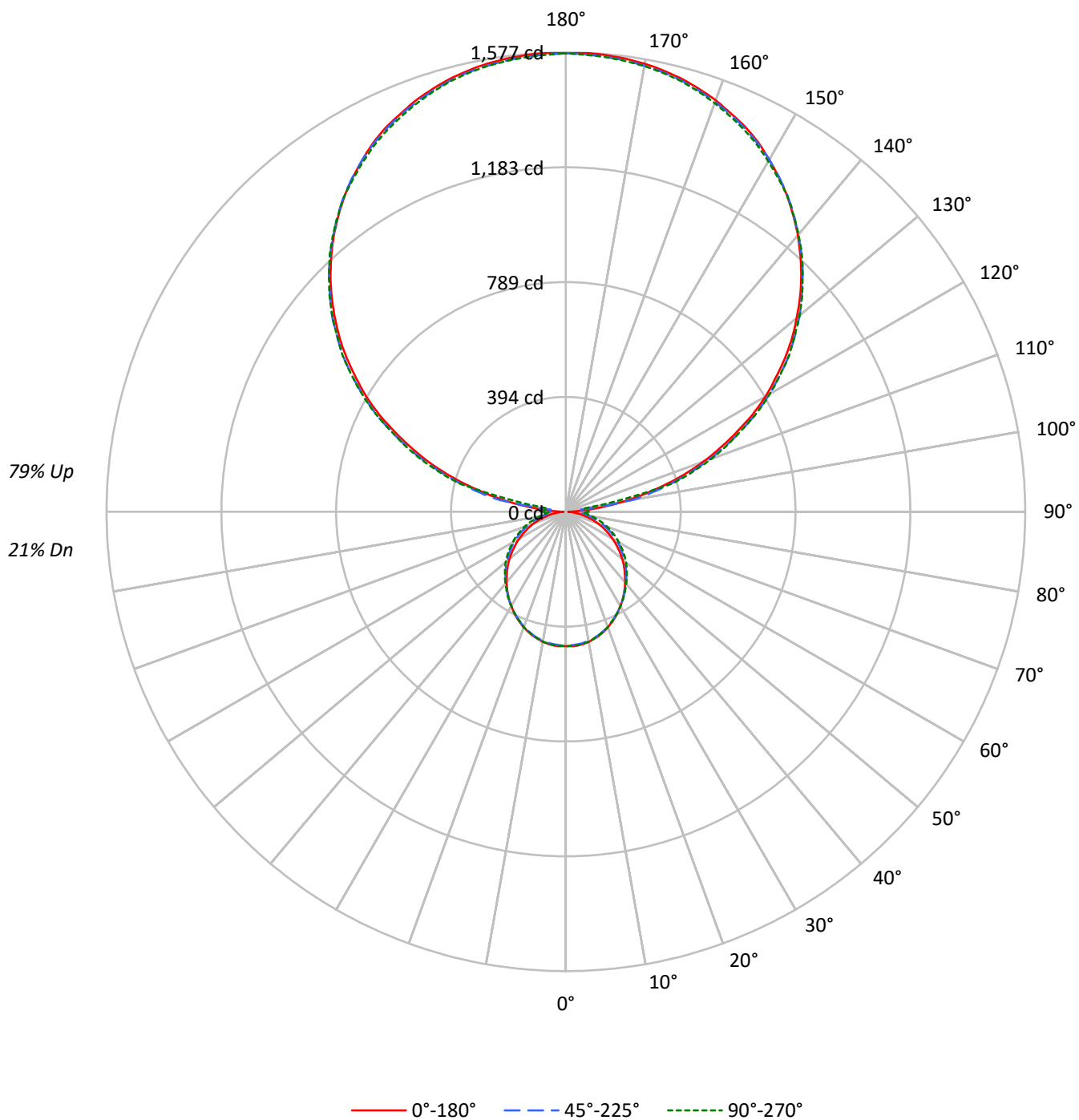
Lumens per Lamp: N/A
Luminaire Lumens: 6264.0 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	100	100	100	100	89	89	89	89	67	67	67	48	48	48	30	30	30	30	30	21
1	91	87	83	79	80	77	74	71	58	56	54	41	40	39	26	25	25	25	25	17
2	83	76	70	65	73	67	62	58	51	48	45	36	34	32	23	21	20	20	20	14
3	75	66	59	54	66	59	53	48	45	41	37	32	29	27	20	18	17	17	17	12
4	69	58	51	45	61	52	45	40	40	35	32	28	25	23	18	16	15	15	15	10
5	63	52	44	38	55	46	39	34	35	31	27	25	22	20	16	14	13	13	13	9
6	58	46	38	33	51	41	34	30	32	27	23	23	20	17	14	13	11	11	11	8
7	53	42	34	29	47	37	30	26	28	24	20	21	17	15	13	11	10	10	10	7
8	49	37	30	25	43	33	27	23	26	21	18	19	16	13	12	10	9	9	9	6
9	46	34	27	22	40	30	24	20	24	19	16	17	14	12	11	9	8	8	8	5
10	43	31	24	20	38	28	22	18	22	17	14	16	13	11	10	8	7	7	7	5

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	0.7
10°-20°	123.8	2.0
20°-30°	184.1	2.9
30°-40°	218.1	3.5
40°-50°	225.5	3.6
50°-60°	207.7	3.3
60°-70°	167.9	2.7
70°-80°	112.3	1.8
80°-90°	60.4	1.0
90°-100°	86.1	1.4
100°-110°	379.3	6.1
110°-120°	655.7	10.5
120°-130°	830.0	13.3
130°-140°	886.9	14.2
140°-150°	829.4	13.2
150°-160°	670.3	10.7
160°-170°	433.5	6.9
170°-180°	149.5	2.4
0°-30°	351.6	5.6
0°-40°	569.7	9.1
0°-60°	1002.8	16.0
0°-90°	1343.4	21.4
90°-120°	1121.0	17.9
90°-150°	3667.4	58.5
90°-180°	4921.0	78.6
0°-180°	6264.0	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	8
95°	72	81	52	67	71	86
105°	347	359	372	382	384	368
115°	647	656	668	672	668	641
125°	918	925	934	937	936	819
135°	1143	1150	1150	1154	1149	881
145°	1324	1326	1326	1330	1324	828
155°	1458	1451	1453	1457	1448	672
165°	1539	1532	1533	1540	1530	435
175°	1574	1567	1568	1577	1567	150
180°	1574	1574	1574	1574	1574	

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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°	28.5	31.1	54.0	69.7	74.1
95°	72.4	80.6	51.7	67.4	70.6
97.5°	130.2	148.1	52.2	64.0	68.3
100°	199.8	212.8	231.9	67.6	65.6
102.5°	270.5	283.7	300.1	311.5	216.2
105°	347.0	358.9	372.5	381.5	383.5
107.5°	425.9	432.2	447.6	457.9	455.9
110°	502.4	507.8	522.8	527.9	532.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	574.8	582.3	595.6	599.2	599.9
115°	646.6	655.6	668.5	672.0	667.7
117.5°	722.0	724.2	740.2	740.9	741.7
120°	792.0	792.1	806.0	811.4	808.3
122.5°	853.3	859.7	870.7	875.6	871.3
125°	917.5	925.2	934.2	936.8	935.6
127.5°	978.9	984.2	990.8	995.2	988.6
130°	1034.9	1040.2	1047.7	1050.6	1047.0
132.5°	1090.4	1097.4	1098.4	1104.8	1100.7
135°	1142.9	1149.5	1150.2	1153.8	1149.1
137.5°	1191.9	1198.5	1197.9	1203.3	1199.3
140°	1239.3	1241.6	1240.9	1248.2	1243.0
142.5°	1282.4	1283.1	1285.4	1289.5	1284.4
145°	1324.4	1326.3	1326.3	1329.7	1324.5
147.5°	1361.3	1361.3	1362.4	1364.5	1357.2
150°	1396.3	1393.9	1396.3	1398.6	1389.8
152.5°	1430.1	1424.3	1426.6	1428.9	1420.8
155°	1458.1	1451.1	1453.4	1456.9	1447.6
157.5°	1480.2	1476.8	1476.8	1480.2	1470.9
160°	1503.6	1496.6	1497.7	1502.4	1493.1
162.5°	1522.2	1515.2	1516.4	1523.4	1512.9
165°	1538.6	1531.6	1532.7	1539.7	1530.4
167.5°	1551.4	1544.4	1545.6	1553.7	1543.2
170°	1561.9	1553.7	1554.9	1564.2	1553.7
172.5°	1568.9	1560.7	1563.1	1571.2	1560.7
175°	1573.6	1566.6	1567.7	1577.1	1566.6
177.5°	1577.1	1570.1	1571.2	1579.4	1570.1
180°	1573.6	1573.6	1573.6	1573.6	1573.6

(END OF REPORT)