

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: P1027808

Luminaire Tested: S125DIP-B375D1270UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027808
REPORT IS A COMBINATION OF REPORTS P1001909 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1270UB30-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

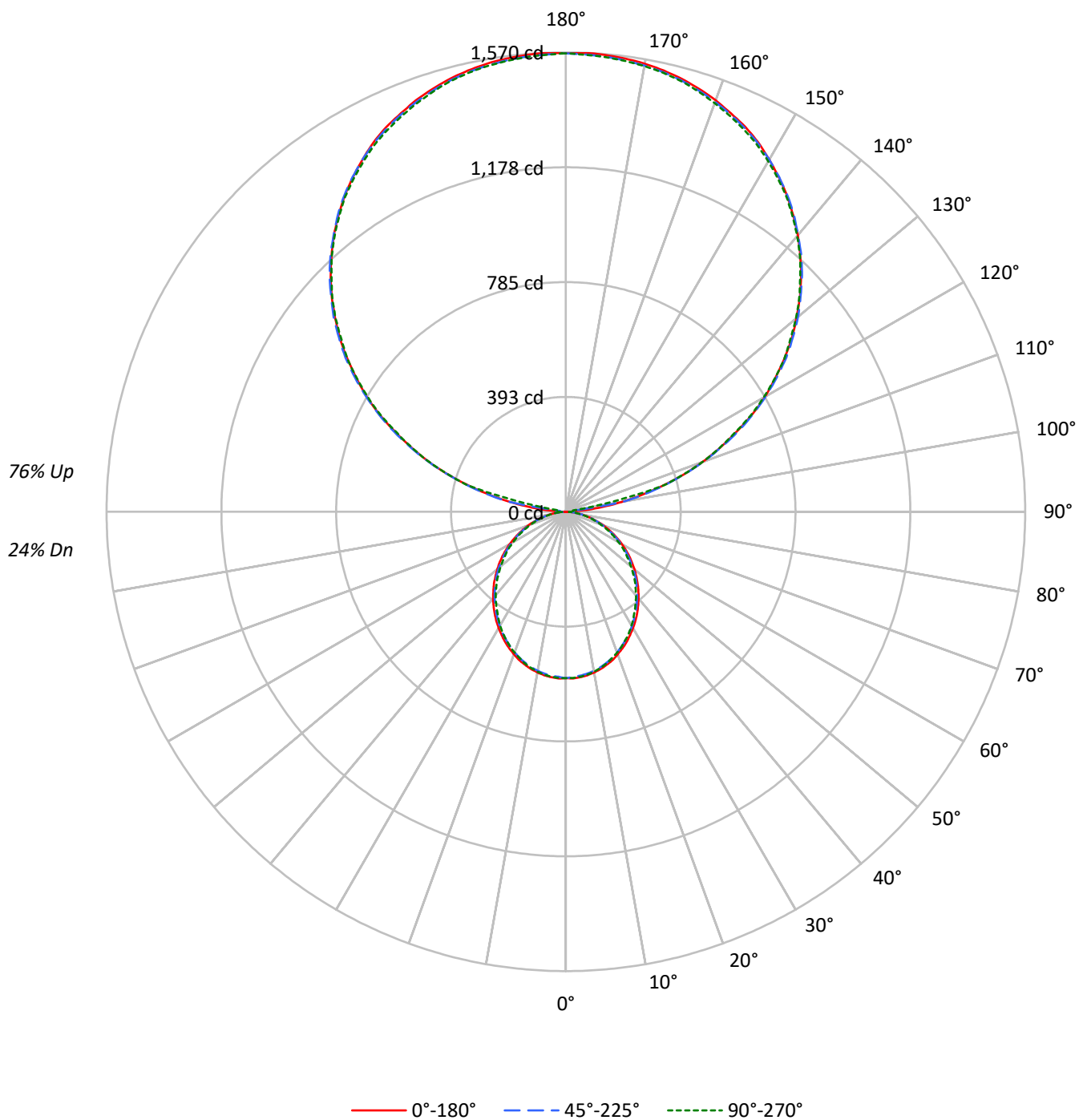
Lumens per Lamp: N/A
Luminaire Lumens: 6295.0 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	49	49	49	32	32	32
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27
2	84	76	71	66	74	68	63	59	52	49	46	38	36	34	25	23	22
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19
4	70	59	52	46	62	53	47	42	41	36	33	30	27	25	19	18	16
5	64	53	45	39	56	47	40	35	36	32	28	27	24	21	17	16	14
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	13	11
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3643	3643	3643
5°	3643	3559	3565
10°	3613	3477	3466
15°	3566	3380	3349
20°	3501	3266	3215
25°	3433	3143	3071
30°	3350	3014	2920
35°	3261	2879	2751
40°	3169	2737	2600
45°	3070	2598	2439
50°	2961	2441	2253
55°	2853	2267	2081
60°	2724	2084	1882
65°	2570	1872	1675
70°	2414	1629	1437
75°	2149	1341	1161
80°	1832	1002	854
85°	1412	593	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3070 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	0.9
10°-20°	151.6	2.4
20°-30°	223.8	3.6
30°-40°	261.1	4.1
40°-50°	262.2	4.2
50°-60°	230.2	3.7
60°-70°	171.4	2.7
70°-80°	97.9	1.6
80°-90°	30.6	0.5
90°-100°	53.2	0.8
100°-110°	353.6	5.6
110°-120°	636.8	10.1
120°-130°	817.3	13.0
130°-140°	879.0	14.0
140°-150°	825.0	13.1
150°-160°	667.3	10.6
160°-170°	431.6	6.9
170°-180°	148.8	2.4
0°-30°	429.0	6.8
0°-40°	690.0	11.0
0°-60°	1182.4	18.8
0°-90°	1482.3	23.5
90°-120°	1043.5	16.6
90°-150°	3564.9	56.6
90°-180°	4813.0	76.5
0°-180°	6295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	569	569	569	569	569	
5°	568	567	562	566	566	54
15°	541	540	535	537	537	153
25°	491	489	483	484	483	226
35°	424	422	416	414	410	265
45°	347	346	340	335	333	268
55°	264	263	257	253	250	236
65°	179	178	173	169	167	177
75°	95	94	92	90	89	101
85°	25	25	25	25	24	27
90°	1	10	19	24	28	5
95°	66	63	19	24	24	81
105°	342	346	346	346	345	362
115°	641	647	648	643	636	636
125°	912	920	920	915	912	814
135°	1137	1144	1142	1139	1132	877
145°	1318	1320	1320	1322	1315	824
155°	1452	1445	1447	1451	1441	669
165°	1532	1525	1526	1533	1524	433
175°	1567	1560	1561	1570	1560	149
180°	1567	1567	1567	1567	1567	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	568.6	568.6	568.6	568.6	568.6
2.5°	570.4	569.1	564.6	569.1	568.6
5°	567.7	566.8	562.3	566.4	565.9
7.5°	563.7	562.8	557.8	561.9	561.4
10°	557.8	556.9	552.0	555.6	555.1
12.5°	550.6	548.8	544.3	547.0	547.0
15°	541.2	539.8	534.9	537.1	537.1
17.5°	531.3	529.0	524.1	526.8	524.5
20°	518.2	517.3	511.5	514.6	512.4
22.5°	505.2	503.4	498.0	499.8	498.4
25°	491.3	489.0	483.2	484.1	482.7
27.5°	475.1	473.7	467.9	468.3	467.0
30°	459.3	458.0	451.2	450.3	449.0
32.5°	442.2	440.0	434.1	432.3	429.6
35°	424.2	422.4	416.1	413.9	410.3
37.5°	405.8	403.5	397.7	394.5	392.3
40°	386.9	384.6	378.3	374.3	372.9
42.5°	366.6	364.8	358.5	354.9	352.7
45°	347.3	345.5	340.1	334.7	333.3
47.5°	326.2	326.6	319.9	314.5	311.3
50°	305.9	304.6	299.2	293.3	290.2
52.5°	285.2	284.3	278.5	273.5	269.9
55°	264.5	263.2	256.9	252.8	249.7
57.5°	242.5	242.0	236.6	231.2	229.9
60°	221.8	220.0	215.0	210.5	207.4
62.5°	200.2	198.8	194.8	189.8	187.6
65°	178.6	177.7	172.7	168.7	166.9
67.5°	157.5	155.7	152.1	148.5	147.6
70°	137.7	135.4	131.4	128.7	126.9
72.5°	116.1	114.7	112.5	109.3	107.5
75°	94.9	94.0	91.8	90.4	88.6
77.5°	75.1	74.7	73.3	72.4	71.1
80°	56.7	56.7	55.8	55.3	54.4
82.5°	40.5	39.6	39.6	38.7	38.7
85°	24.7	25.2	25.2	24.7	23.8
87.5°	12.1	12.1	11.7	11.7	10.8
90°	1.2	10.5	18.6	24.4	27.9
92.5°	22.1	11.6	18.6	24.4	25.6
95°	66.2	62.7	18.6	24.4	24.4
97.5°	124.3	131.2	20.9	23.2	24.4
100°	194.0	197.4	202.1	29.0	24.4
102.5°	264.8	269.4	271.8	274.1	176.5
105°	341.5	346.1	346.1	346.1	344.9
107.5°	420.4	420.4	422.8	423.9	419.3
110°	497.1	497.1	499.4	495.9	497.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	569.1	572.6	573.7	569.1	566.8
115°	641.1	646.9	648.1	643.4	636.4
117.5°	716.6	716.6	721.2	714.3	711.9
120°	786.3	785.1	788.6	786.3	780.5
122.5°	847.8	853.6	854.8	852.5	845.5
125°	911.7	919.8	919.8	915.2	911.7
127.5°	973.3	979.1	977.9	975.6	966.3
130°	1029.0	1034.8	1036.0	1032.5	1026.7
132.5°	1084.8	1091.7	1088.2	1088.2	1082.4
135°	1137.0	1144.0	1141.7	1139.3	1132.4
137.5°	1185.8	1192.8	1190.4	1190.4	1184.6
140°	1233.4	1235.7	1234.6	1236.9	1229.9
142.5°	1276.4	1277.5	1279.9	1279.9	1272.9
145°	1318.2	1320.5	1320.5	1321.7	1314.7
147.5°	1355.4	1355.4	1356.5	1357.7	1349.6
150°	1390.2	1387.9	1390.2	1392.5	1383.2
152.5°	1423.9	1418.1	1420.4	1422.7	1414.6
155°	1451.8	1444.8	1447.1	1450.6	1441.3
157.5°	1473.8	1470.3	1470.3	1473.8	1464.5
160°	1497.0	1490.1	1491.2	1495.9	1486.6
162.5°	1515.6	1508.7	1509.8	1516.8	1506.3
165°	1531.9	1524.9	1526.1	1533.1	1523.8
167.5°	1544.7	1537.7	1538.9	1547.0	1536.5
170°	1555.1	1547.0	1548.2	1557.4	1547.0
172.5°	1562.1	1554.0	1556.3	1564.4	1554.0
175°	1566.7	1559.8	1560.9	1570.2	1559.8
177.5°	1570.2	1563.2	1564.4	1572.5	1563.2
180°	1566.7	1566.7	1566.7	1566.7	1566.7

(END OF REPORT)