

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: P1027592

Luminaire Tested: S125DIP-B1270D1270UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027592
REPORT IS A COMBINATION OF REPORTS P1001615 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1270UB35-4F0-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

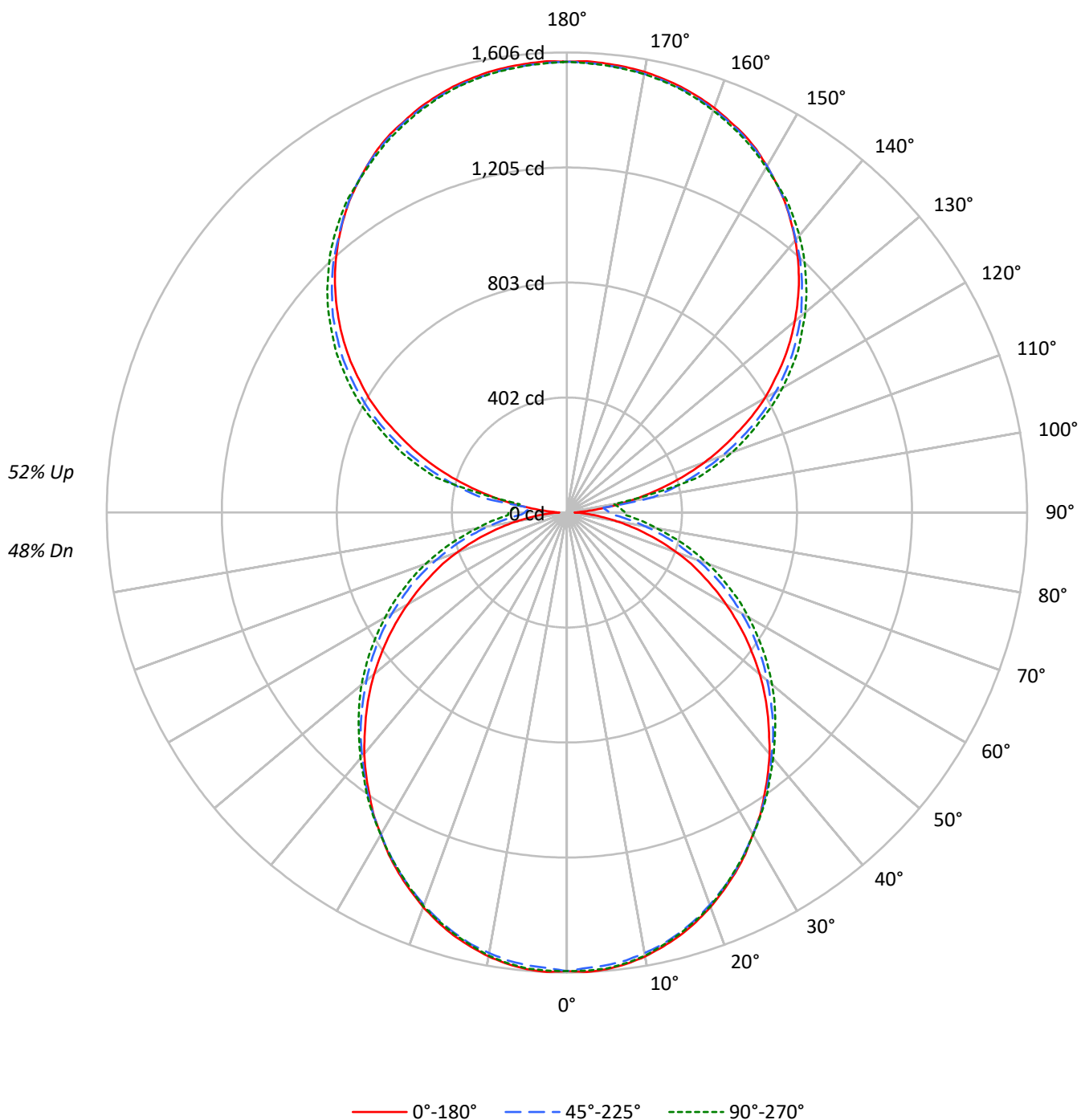
Lumens per Lamp: N/A
Luminaire Lumens: 9795.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	97	92	88	84	89	85	81	78	71	68	66	58	56	55	47	45	44
2	88	80	73	68	80	74	68	63	62	58	54	51	48	45	41	38	37
3	80	70	62	56	73	64	58	53	54	49	45	45	41	38	36	33	31
4	73	62	54	47	67	57	50	44	48	42	38	40	35	32	32	29	26
5	67	55	47	40	61	51	43	38	43	37	33	35	31	28	29	25	23
6	61	49	41	35	56	45	38	33	38	33	28	32	28	24	26	23	20
7	57	44	36	31	52	41	34	29	35	29	25	29	25	21	24	20	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	18	16
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	20	17	14
10	46	34	26	21	42	31	25	20	27	21	18	22	18	15	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10256	10256	10256
5°	10273	10042	10066
10°	10196	9837	9809
15°	10072	9599	9492
20°	9904	9311	9178
25°	9706	9004	8798
30°	9466	8671	8452
35°	9241	8362	8133
40°	9013	8038	7812
45°	8754	7757	7523
50°	8507	7452	7263
55°	8210	7161	6960
60°	7884	6830	6649
65°	7543	6479	6301
70°	7152	6011	5936
75°	6539	5549	5492
80°	5729	4988	5002
85°	4934	4538	4743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	1.5
10°-20°	430.0	4.4
20°-30°	639.5	6.5
30°-40°	757.3	7.7
40°-50°	782.9	8.0
50°-60°	721.2	7.4
60°-70°	583.0	6.0
70°-80°	390.1	4.0
80°-90°	204.0	2.1
90°-100°	167.0	1.7
100°-110°	438.9	4.5
110°-120°	695.6	7.1
120°-130°	852.6	8.7
130°-140°	896.8	9.2
140°-150°	831.4	8.5
150°-160°	670.3	6.8
160°-170°	433.5	4.4
170°-180°	149.5	1.5
0°-30°	1221.0	12.5
0°-40°	1978.3	20.2
0°-60°	3482.4	35.6
0°-90°	4659.6	47.6
90°-120°	1301.4	13.3
90°-150°	3882.2	39.6
90°-180°	5135.0	52.4
0°-180°	9795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1601	1598	1587	1599	1598	152
15°	1529	1530	1519	1529	1522	431
25°	1389	1394	1384	1390	1383	639
35°	1202	1213	1208	1213	1213	753
45°	990	1008	1015	1026	1028	764
55°	761	786	811	829	835	680
65°	524	560	598	622	628	520
75°	289	330	380	411	419	306
85°	86	138	193	228	240	90
90°	26	86	147	189	204	21
95°	87	124	133	174	185	98
105°	357	387	434	465	475	378
115°	653	670	712	736	738	648
125°	922	928	960	980	985	823
135°	1145	1151	1159	1177	1178	883
145°	1326	1326	1326	1335	1334	829
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°	1600.8	1600.8	1600.8	1600.8	1600.8
2.5°	1605.5	1602.4	1591.4	1602.4	1600.8
5°	1600.8	1597.7	1586.7	1599.2	1597.7
7.5°	1589.8	1588.2	1577.3	1588.2	1586.7
10°	1574.1	1574.1	1561.6	1572.6	1571.0
12.5°	1552.1	1553.7	1544.3	1552.1	1547.4
15°	1528.6	1530.2	1519.2	1528.6	1522.3
17.5°	1498.8	1501.9	1490.9	1498.8	1494.1
20°	1465.8	1469.0	1458.0	1462.7	1462.7
22.5°	1428.2	1434.4	1421.9	1428.2	1423.5
25°	1388.9	1393.6	1384.2	1390.5	1382.7
27.5°	1346.6	1352.8	1341.8	1346.6	1343.4
30°	1297.9	1307.3	1297.9	1301.0	1299.5
32.5°	1254.0	1261.8	1255.5	1258.7	1257.1
35°	1202.2	1213.2	1208.4	1213.2	1213.2
37.5°	1151.9	1161.4	1159.8	1166.1	1164.5
40°	1100.2	1112.7	1111.1	1117.4	1120.6
42.5°	1043.7	1060.9	1065.6	1073.5	1073.5
45°	990.3	1007.6	1015.4	1026.4	1028.0
47.5°	935.4	951.1	963.6	979.3	982.5
50°	878.9	896.1	913.4	930.7	935.4
52.5°	819.2	841.2	863.2	882.0	885.1
55°	761.2	786.3	811.4	828.6	834.9
57.5°	701.5	731.3	759.6	778.4	783.1
60°	641.9	673.3	704.7	728.2	732.9
62.5°	583.8	615.2	649.7	676.4	682.7
65°	524.2	560.3	597.9	621.5	627.8
67.5°	469.3	503.8	541.4	569.7	577.5
70°	408.0	444.1	484.9	514.8	524.2
72.5°	348.4	386.1	431.6	464.5	470.8
75°	288.8	329.6	379.8	411.2	419.0
77.5°	230.7	277.8	324.9	359.4	365.7
80°	177.3	224.4	277.8	312.3	318.6
82.5°	128.7	178.9	233.8	266.8	279.4
85°	86.3	138.1	193.0	227.6	240.1
87.5°	54.9	105.2	158.5	194.6	205.6
90°	26.3	85.8	147.4	189.3	203.8
92.5°	44.2	79.2	141.1	181.4	193.6
95°	86.9	124.2	133.3	173.6	184.6
97.5°	143.6	188.3	129.3	164.5	176.7
100°	212.1	248.5	303.4	162.6	167.3
102.5°	281.7	316.1	367.2	400.9	312.3
105°	357.0	386.8	433.9	465.3	475.1
107.5°	434.9	456.8	504.6	537.2	541.9
110°	510.2	529.0	575.4	601.7	613.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	582.6	600.2	643.7	667.3	675.9
115°	653.3	670.1	712.1	735.7	738.1
117.5°	727.5	735.4	779.3	799.0	807.6
120°	797.5	801.1	840.7	865.0	868.6
122.5°	857.8	865.2	900.9	923.7	926.1
125°	922.0	928.5	959.9	980.4	984.8
127.5°	982.2	986.4	1012.0	1033.2	1033.3
130°	1038.2	1042.4	1065.6	1084.1	1086.1
132.5°	1092.6	1099.6	1111.8	1133.8	1134.2
135°	1145.1	1150.6	1159.2	1177.3	1178.1
137.5°	1194.1	1199.6	1203.4	1222.3	1222.8
140°	1240.4	1242.7	1243.1	1262.7	1262.0
142.5°	1283.5	1283.1	1285.4	1299.5	1298.9
145°	1325.5	1326.3	1326.3	1335.2	1334.5
147.5°	1361.3	1361.3	1362.4	1366.7	1361.7
150°	1396.3	1393.9	1396.3	1398.6	1390.9
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)