

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: P1027796

Luminaire Tested: S125DIP-B375D1270UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027796
REPORT IS A COMBINATION OF REPORTS P1001882 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1270UB27-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

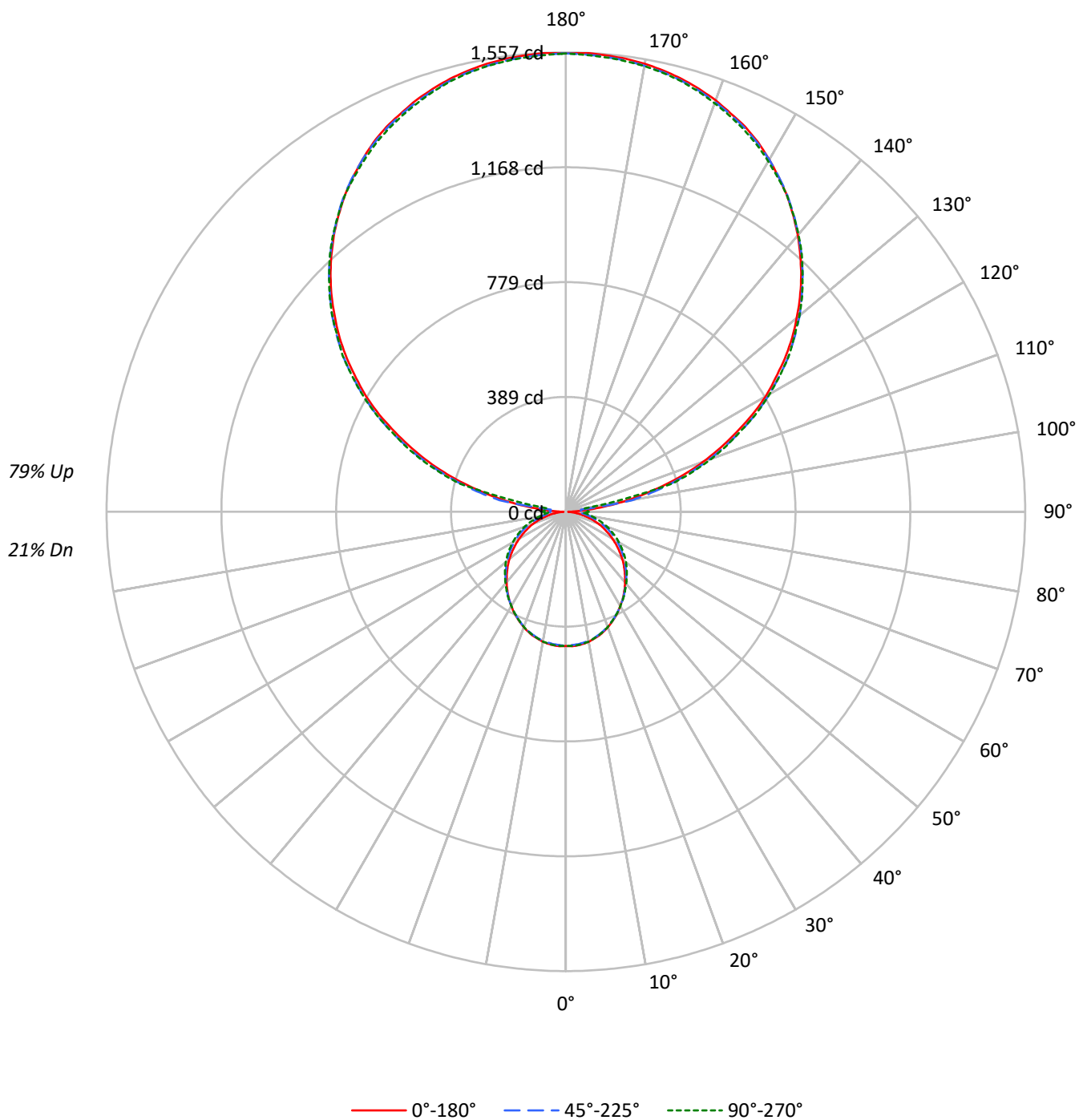
Lumens per Lamp: N/A
Luminaire Lumens: 6183.0 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
Input Voltage (V):
Input Current (A_{in}): 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

TEST NUMBER: P1027796

CATALOG NUMBER: S125DIP-B375D1270UB27-4F0-XX-W2A-D

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2914	2914	2914
5°	2919	2853	2860
10°	2897	2795	2787
15°	2862	2727	2697
20°	2814	2646	2608
25°	2757	2558	2500
30°	2690	2464	2401
35°	2626	2376	2311
40°	2561	2284	2220
45°	2488	2204	2138
50°	2417	2117	2064
55°	2333	2034	1977
60°	2240	1940	1889
65°	2143	1841	1790
70°	2032	1708	1686
75°	1857	1577	1561
80°	1629	1417	1421
85°	1401	1289	1347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2488 cd/sqm

TEST NUMBER: P1027796

CATALOG NUMBER: S125DIP-B375D1270UB27-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	0.7
10°-20°	122.2	2.0
20°-30°	181.7	2.9
30°-40°	215.2	3.5
40°-50°	222.5	3.6
50°-60°	204.9	3.3
60°-70°	165.7	2.7
70°-80°	110.8	1.8
80°-90°	59.6	1.0
90°-100°	85.0	1.4
100°-110°	374.4	6.1
110°-120°	647.2	10.5
120°-130°	819.4	13.3
130°-140°	875.5	14.2
140°-150°	818.8	13.2
150°-160°	661.7	10.7
160°-170°	427.9	6.9
170°-180°	147.6	2.4
0°-30°	346.9	5.6
0°-40°	562.1	9.1
0°-60°	989.5	16.0
0°-90°	1325.6	21.4
90°-120°	1106.6	17.9
90°-150°	3620.3	58.6
90°-180°	4857.0	78.6
0°-180°	6183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	455	454	451	454	454	43
15°	434	435	432	434	432	122
25°	395	396	393	395	393	182
35°	342	345	343	345	345	214
45°	281	286	288	292	292	217
55°	216	223	230	235	237	193
65°	149	159	170	177	178	148
75°	82	94	108	117	119	87
85°	24	39	55	65	68	26
90°	8	32	55	71	78	8
95°	71	80	51	67	70	85
105°	342	354	368	377	379	363
115°	638	647	660	663	659	633
125°	906	913	922	925	924	809
135°	1128	1135	1136	1139	1134	870
145°	1307	1309	1309	1313	1308	818
155°	1439	1432	1435	1438	1429	663
165°	1519	1512	1513	1520	1511	429
175°	1553	1546	1548	1557	1546	148
180°	1553	1553	1553	1553	1553	

TEST NUMBER: P1027796

CATALOG NUMBER: S125DIP-B375D1270UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.8	454.8	454.8	454.8	454.8
2.5°	456.2	455.3	452.2	455.3	454.8
5°	454.8	453.9	450.8	454.4	453.9
7.5°	451.7	451.3	448.1	451.3	450.8
10°	447.3	447.3	443.7	446.8	446.4
12.5°	441.0	441.5	438.8	441.0	439.7
15°	434.3	434.8	431.6	434.3	432.5
17.5°	425.9	426.7	423.6	425.9	424.5
20°	416.5	417.4	414.3	415.6	415.6
22.5°	405.8	407.6	404.0	405.8	404.4
25°	394.6	396.0	393.3	395.1	392.9
27.5°	382.6	384.4	381.3	382.6	381.7
30°	368.8	371.4	368.8	369.7	369.2
32.5°	356.3	358.5	356.7	357.6	357.2
35°	341.6	344.7	343.4	344.7	344.7
37.5°	327.3	330.0	329.5	331.3	330.9
40°	312.6	316.2	315.7	317.5	318.4
42.5°	296.5	301.4	302.8	305.0	305.0
45°	281.4	286.3	288.5	291.6	292.1
47.5°	265.8	270.2	273.8	278.3	279.1
50°	249.7	254.6	259.5	264.4	265.8
52.5°	232.8	239.0	245.3	250.6	251.5
55°	216.3	223.4	230.5	235.4	237.2
57.5°	199.3	207.8	215.8	221.2	222.5
60°	182.4	191.3	200.2	206.9	208.2
62.5°	165.9	174.8	184.6	192.2	194.0
65°	148.9	159.2	169.9	176.6	178.4
67.5°	133.3	143.1	153.8	161.9	164.1
70°	115.9	126.2	137.8	146.3	148.9
72.5°	99.0	109.7	122.6	132.0	133.8
75°	82.0	93.6	107.9	116.8	119.1
77.5°	65.5	78.9	92.3	102.1	103.9
80°	50.4	63.8	78.9	88.7	90.5
82.5°	36.6	50.8	66.4	75.8	79.4
85°	24.5	39.2	54.8	64.7	68.2
87.5°	15.6	29.9	45.0	55.3	58.4
90°	8.3	31.8	55.0	71.0	77.5
92.5°	28.1	30.7	53.2	68.8	73.0
95°	71.4	79.6	51.0	66.6	69.7
97.5°	128.6	146.2	51.5	63.1	67.5
100°	197.2	210.1	228.9	66.7	64.8
102.5°	267.0	280.1	296.3	307.5	213.3
105°	342.5	354.3	367.7	376.6	378.6
107.5°	420.4	426.6	441.9	452.0	450.0
110°	495.9	501.3	516.2	521.1	525.4

TEST NUMBER: P1027796

CATALOG NUMBER: S125DIP-B375D1270UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	567.3	574.8	588.0	591.4	592.2
115°	638.3	647.2	659.9	663.3	659.1
117.5°	712.7	715.0	730.7	731.4	732.2
120°	781.8	782.0	795.7	801.0	797.9
122.5°	842.4	848.6	859.5	864.4	860.1
125°	905.7	913.3	922.3	924.8	923.5
127.5°	966.3	971.6	978.1	982.5	975.9
130°	1021.5	1026.9	1034.3	1037.1	1033.5
132.5°	1076.4	1083.3	1084.4	1090.6	1086.6
135°	1128.2	1134.6	1135.5	1139.0	1134.3
137.5°	1176.6	1183.0	1182.5	1187.9	1183.9
140°	1223.3	1225.6	1225.0	1232.2	1227.1
142.5°	1265.9	1266.7	1269.0	1273.0	1267.9
145°	1307.4	1309.3	1309.3	1312.6	1307.5
147.5°	1343.8	1343.8	1345.0	1347.0	1339.9
150°	1378.4	1376.1	1378.4	1380.7	1371.9
152.5°	1411.8	1406.0	1408.3	1410.6	1402.5
155°	1439.4	1432.5	1434.8	1438.2	1429.0
157.5°	1461.3	1457.8	1457.8	1461.3	1452.1
160°	1484.3	1477.4	1478.5	1483.2	1473.9
162.5°	1502.7	1495.8	1497.0	1503.9	1493.5
165°	1518.8	1511.9	1513.1	1520.0	1510.8
167.5°	1531.5	1524.6	1525.8	1533.8	1523.5
170°	1541.9	1533.8	1535.0	1544.2	1533.8
172.5°	1548.8	1540.7	1543.0	1551.1	1540.7
175°	1553.4	1546.5	1547.6	1556.8	1546.5
177.5°	1556.8	1549.9	1551.1	1559.2	1549.9
180°	1553.4	1553.4	1553.4	1553.4	1553.4

(END OF REPORT)