

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: P1027805

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027805
REPORT IS A COMBINATION OF REPORTS P1001906 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-D
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

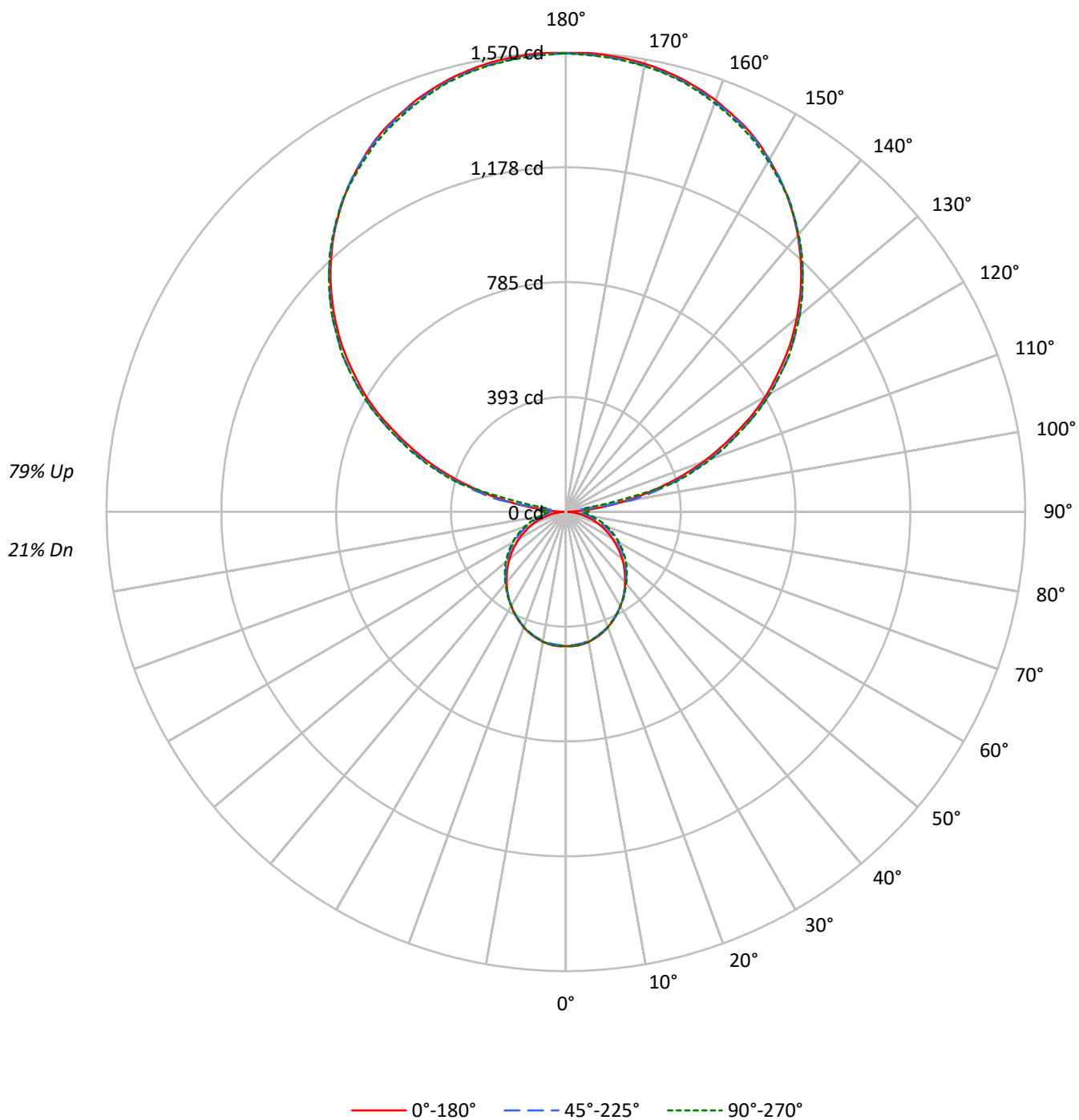
Lumens per Lamp: N/A
Luminaire Lumens: 6237.2 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					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°	2941	2941	2941
5°	2946	2879	2886
10°	2924	2821	2813
15°	2888	2752	2722
20°	2840	2670	2632
25°	2783	2582	2523
30°	2714	2487	2423
35°	2650	2398	2332
40°	2585	2305	2240
45°	2511	2225	2157
50°	2439	2137	2082
55°	2354	2054	1996
60°	2261	1959	1907
65°	2163	1859	1806
70°	2051	1724	1702
75°	1875	1591	1576
80°	1645	1431	1435
85°	1418	1303	1361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2511 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	0.7
10°-20°	123.3	2.0
20°-30°	183.4	2.9
30°-40°	217.2	3.5
40°-50°	224.5	3.6
50°-60°	206.8	3.3
60°-70°	167.2	2.7
70°-80°	111.9	1.8
80°-90°	60.2	1.0
90°-100°	85.8	1.4
100°-110°	377.6	6.1
110°-120°	652.9	10.5
120°-130°	826.4	13.3
130°-140°	883.0	14.2
140°-150°	825.8	13.2
150°-160°	667.3	10.7
160°-170°	431.6	6.9
170°-180°	148.8	2.4
0°-30°	350.1	5.6
0°-40°	567.3	9.1
0°-60°	998.6	16.0
0°-90°	1337.9	21.4
90°-120°	1116.3	17.9
90°-150°	3651.6	58.5
90°-180°	4899.0	78.5
0°-180°	6237.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	459	459	459	459	459	
5°	459	458	455	459	458	44
15°	438	439	436	438	436	124
25°	398	400	397	399	396	183
35°	345	348	346	348	348	216
45°	284	289	291	294	295	219
55°	218	226	233	238	239	195
65°	150	161	172	178	180	149
75°	83	94	109	118	120	88
85°	25	40	55	65	69	26
90°	8	32	56	72	78	8
95°	72	80	52	67	70	86
105°	346	357	371	380	382	366
115°	644	653	666	669	665	638
125°	914	921	930	933	932	816
135°	1138	1144	1145	1149	1144	877
145°	1319	1320	1320	1324	1319	825
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°	459.0	459.0	459.0	459.0	459.0
2.5°	460.4	459.5	456.3	459.5	459.0
5°	459.0	458.1	455.0	458.6	458.1
7.5°	455.9	455.4	452.3	455.4	455.0
10°	451.4	451.4	447.8	450.9	450.5
12.5°	445.1	445.5	442.8	445.1	443.7
15°	438.3	438.8	435.6	438.3	436.5
17.5°	429.8	430.7	427.5	429.8	428.4
20°	420.3	421.2	418.1	419.4	419.4
22.5°	409.5	411.3	407.7	409.5	408.2
25°	398.3	399.6	396.9	398.7	396.5
27.5°	386.1	387.9	384.8	386.1	385.2
30°	372.2	374.9	372.2	373.1	372.6
32.5°	359.6	361.8	360.0	360.9	360.5
35°	344.7	347.9	346.5	347.9	347.9
37.5°	330.3	333.0	332.6	334.4	333.9
40°	315.5	319.1	318.6	320.4	321.3
42.5°	299.3	304.2	305.6	307.8	307.8
45°	284.0	288.9	291.2	294.3	294.8
47.5°	268.2	272.7	276.3	280.8	281.7
50°	252.0	257.0	261.9	266.9	268.2
52.5°	234.9	241.2	247.5	252.9	253.8
55°	218.3	225.5	232.7	237.6	239.4
57.5°	201.2	209.7	217.8	223.2	224.6
60°	184.1	193.1	202.1	208.8	210.2
62.5°	167.4	176.4	186.3	194.0	195.8
65°	150.3	160.7	171.5	178.2	180.0
67.5°	134.6	144.5	155.3	163.4	165.6
70°	117.0	127.4	139.1	147.6	150.3
72.5°	99.9	110.7	123.8	133.2	135.0
75°	82.8	94.5	108.9	117.9	120.2
77.5°	66.2	79.7	93.2	103.1	104.9
80°	50.9	64.4	79.7	89.6	91.4
82.5°	36.9	51.3	67.1	76.5	80.1
85°	24.8	39.6	55.4	65.3	68.9
87.5°	15.8	30.2	45.5	55.8	59.0
90°	8.4	32.1	55.5	71.7	78.3
92.5°	28.4	31.0	53.7	69.4	73.8
95°	72.1	80.3	51.5	67.2	70.3
97.5°	129.7	147.4	52.0	63.7	68.1
100°	199.0	211.8	230.9	67.3	65.4
102.5°	269.3	282.5	298.8	310.1	215.2
105°	345.6	357.4	370.9	379.9	381.8
107.5°	424.0	430.3	445.8	455.9	454.0
110°	500.3	505.7	520.6	525.6	530.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	572.3	579.8	593.1	596.6	597.4
115°	643.8	652.8	665.7	669.1	664.8
117.5°	718.9	721.1	737.0	737.7	738.5
120°	788.6	788.7	802.6	807.9	804.8
122.5°	849.6	855.9	867.0	871.9	867.6
125°	913.5	921.2	930.2	932.8	931.5
127.5°	974.7	980.0	986.5	990.9	984.3
130°	1030.4	1035.7	1043.2	1046.0	1042.5
132.5°	1085.7	1092.6	1093.6	1099.9	1095.9
135°	1137.9	1144.5	1145.3	1148.8	1144.1
137.5°	1186.7	1193.3	1192.7	1198.1	1194.1
140°	1233.9	1236.2	1235.5	1242.8	1237.6
142.5°	1276.9	1277.5	1279.9	1284.0	1278.8
145°	1318.7	1320.5	1320.5	1324.0	1318.8
147.5°	1355.4	1355.4	1356.5	1358.6	1351.4
150°	1390.2	1387.9	1390.2	1392.5	1383.7
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)