

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: P1027827

Luminaire Tested: S125DIP-B375D1270UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027827
REPORT IS A COMBINATION OF REPORTS P1001928 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1270UB40-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

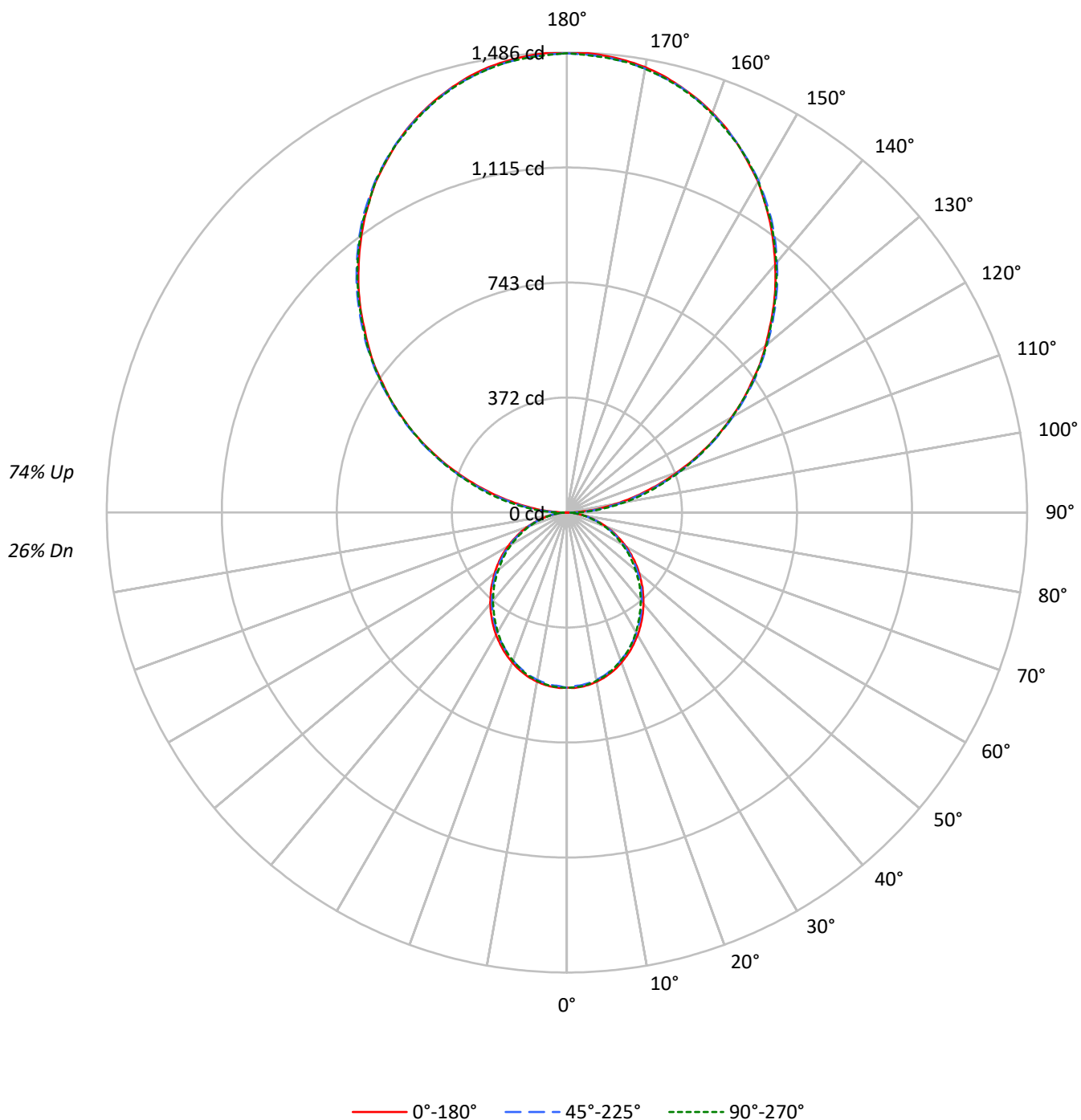
Lumens per Lamp: N/A
Luminaire Lumens: 5615.0 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
Input Voltage (V):
Input Current (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

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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	91	91	91	91	70	70	70	51	51	51	34	34	34
1	92	88	84	81	82	79	76	73	61	59	57	45	44	43	30	30	29
2	84	77	71	66	75	69	64	60	54	50	47	40	37	36	27	25	24
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	24	22	21
4	70	60	52	46	62	54	47	42	42	37	34	31	28	26	21	19	18
5	64	53	45	39	57	48	41	36	37	33	29	28	25	22	19	17	15
6	59	47	40	34	52	43	36	31	33	29	25	25	22	19	17	15	13
7	54	43	35	30	48	38	32	27	30	25	22	23	19	17	16	14	12
8	50	39	31	26	45	35	28	24	27	23	19	21	17	15	14	12	11
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	10
10	44	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3624	3624	3624
5°	3624	3540	3546
10°	3594	3458	3447
15°	3547	3361	3331
20°	3482	3249	3198
25°	3414	3126	3055
30°	3331	2998	2904
35°	3243	2864	2736
40°	3152	2722	2586
45°	3053	2585	2426
50°	2945	2427	2241
55°	2838	2255	2070
60°	2709	2073	1872
65°	2555	1862	1666
70°	2400	1620	1429
75°	2137	1334	1155
80°	1823	996	849
85°	1407	590	468

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3053 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.0
10°-20°	150.7	2.7
20°-30°	222.5	4.0
30°-40°	259.6	4.6
40°-50°	260.8	4.6
50°-60°	228.9	4.1
60°-70°	170.5	3.0
70°-80°	97.4	1.7
80°-90°	30.4	0.5
90°-100°	98.7	1.8
100°-110°	293.1	5.2
110°-120°	497.1	8.9
120°-130°	654.4	11.7
130°-140°	733.3	13.1
140°-150°	718.7	12.8
150°-160°	603.7	10.8
160°-170°	401.3	7.1
170°-180°	140.4	2.5
0°-30°	426.7	7.6
0°-40°	686.3	12.2
0°-60°	1176.0	20.9
0°-90°	1474.3	26.3
90°-120°	888.8	15.8
90°-150°	2995.2	53.3
90°-180°	4141.0	73.7
0°-180°	5615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	565	564	559	563	563	54
15°	538	537	532	534	534	152
25°	489	486	480	481	480	225
35°	422	420	414	412	408	264
45°	345	344	338	333	332	266
55°	263	262	256	252	248	235
65°	178	177	172	168	166	176
75°	94	94	91	90	88	100
85°	25	25	25	25	24	27
90°	1	10	18	24	28	7
95°	75	77	89	97	99	78
105°	263	269	276	283	286	281
115°	498	502	504	503	502	492
125°	726	733	734	732	731	651
135°	944	951	952	952	948	728
145°	1144	1149	1152	1152	1149	715
155°	1309	1309	1310	1315	1309	603
165°	1424	1421	1422	1427	1420	402
175°	1480	1476	1476	1482	1474	141
180°	1484	1484	1484	1484	1484	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	565.6	565.6	565.6	565.6	565.6
2.5°	567.3	566.0	561.5	566.0	565.6
5°	564.7	563.8	559.3	563.3	562.9
7.5°	560.6	559.7	554.8	558.8	558.4
10°	554.8	553.9	549.0	552.6	552.1
12.5°	547.7	545.9	541.4	544.1	544.1
15°	538.3	536.9	532.0	534.2	534.2
17.5°	528.4	526.2	521.3	523.9	521.7
20°	515.4	514.5	508.7	511.9	509.6
22.5°	502.5	500.7	495.3	497.1	495.8
25°	488.6	486.4	480.5	481.4	480.1
27.5°	472.5	471.1	465.3	465.8	464.4
30°	456.8	455.5	448.8	447.9	446.5
32.5°	439.8	437.6	431.8	430.0	427.3
35°	421.9	420.1	413.9	411.6	408.1
37.5°	403.6	401.3	395.5	392.4	390.2
40°	384.8	382.6	376.3	372.3	370.9
42.5°	364.7	362.9	356.6	353.0	350.8
45°	345.4	343.6	338.3	332.9	331.5
47.5°	324.4	324.8	318.1	312.8	309.6
50°	304.3	302.9	297.5	291.7	288.6
52.5°	283.7	282.8	277.0	272.0	268.5
55°	263.1	261.7	255.5	251.5	248.3
57.5°	241.2	240.7	235.3	230.0	228.6
60°	220.6	218.8	213.9	209.4	206.3
62.5°	199.1	197.8	193.7	188.8	186.6
65°	177.6	176.7	171.8	167.8	166.0
67.5°	156.6	154.8	151.2	147.7	146.8
70°	136.9	134.7	130.7	128.0	126.2
72.5°	115.4	114.1	111.9	108.7	106.9
75°	94.4	93.5	91.3	89.9	88.1
77.5°	74.7	74.3	72.9	72.0	70.7
80°	56.4	56.4	55.5	55.0	54.1
82.5°	40.3	39.4	39.4	38.5	38.5
85°	24.6	25.1	25.1	24.6	23.7
87.5°	12.1	12.1	11.6	11.6	10.7
90°	1.2	10.4	18.5	24.2	27.7
92.5°	34.6	40.4	50.8	58.9	61.2
95°	75.0	77.4	88.9	97.0	99.3
97.5°	115.5	116.6	132.8	139.7	140.9
100°	161.6	161.6	176.7	187.0	189.4
102.5°	211.3	217.1	222.8	234.4	237.8
105°	263.2	269.0	275.9	282.9	286.3
107.5°	319.8	325.6	331.4	334.8	334.8
110°	378.7	384.5	387.9	391.4	390.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	438.7	441.0	445.7	446.8	444.5
115°	497.6	502.2	504.5	503.4	502.2
117.5°	557.7	558.8	561.1	562.3	557.7
120°	613.1	618.9	620.0	620.0	615.4
122.5°	673.1	674.3	677.7	676.6	673.1
125°	726.2	733.2	734.3	732.0	730.8
127.5°	785.1	788.6	789.7	788.6	786.3
130°	837.1	842.8	845.1	844.0	841.7
132.5°	889.0	899.4	898.3	897.1	893.6
135°	944.4	951.4	952.5	952.5	947.9
137.5°	996.4	1003.3	1005.6	1006.8	1001.0
140°	1046.0	1051.8	1055.3	1057.6	1051.8
142.5°	1095.7	1100.3	1104.9	1106.1	1100.3
145°	1144.2	1148.8	1152.3	1152.3	1148.8
147.5°	1189.2	1192.7	1195.0	1198.4	1189.2
150°	1234.2	1233.1	1237.7	1237.7	1235.4
152.5°	1271.2	1273.5	1274.7	1278.1	1273.5
155°	1309.3	1309.3	1310.4	1315.1	1309.3
157.5°	1343.9	1341.6	1342.8	1347.4	1339.3
160°	1373.9	1370.5	1371.6	1376.3	1370.5
162.5°	1400.5	1398.2	1398.2	1404.0	1397.0
165°	1423.6	1421.3	1422.4	1427.1	1420.1
167.5°	1444.4	1439.8	1439.8	1446.7	1439.8
170°	1460.5	1455.9	1455.9	1462.8	1454.8
172.5°	1472.1	1467.5	1467.5	1474.4	1467.5
175°	1480.2	1475.5	1475.5	1482.5	1474.4
177.5°	1485.9	1481.3	1480.2	1487.1	1479.0
180°	1483.6	1483.6	1483.6	1483.6	1483.6

(END OF REPORT)