

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: P1008552

Luminaire Tested: S122DIP-B1005D1080UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008552
REPORT IS A COMBINATION OF REPORTS P983526 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D1080UB27-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

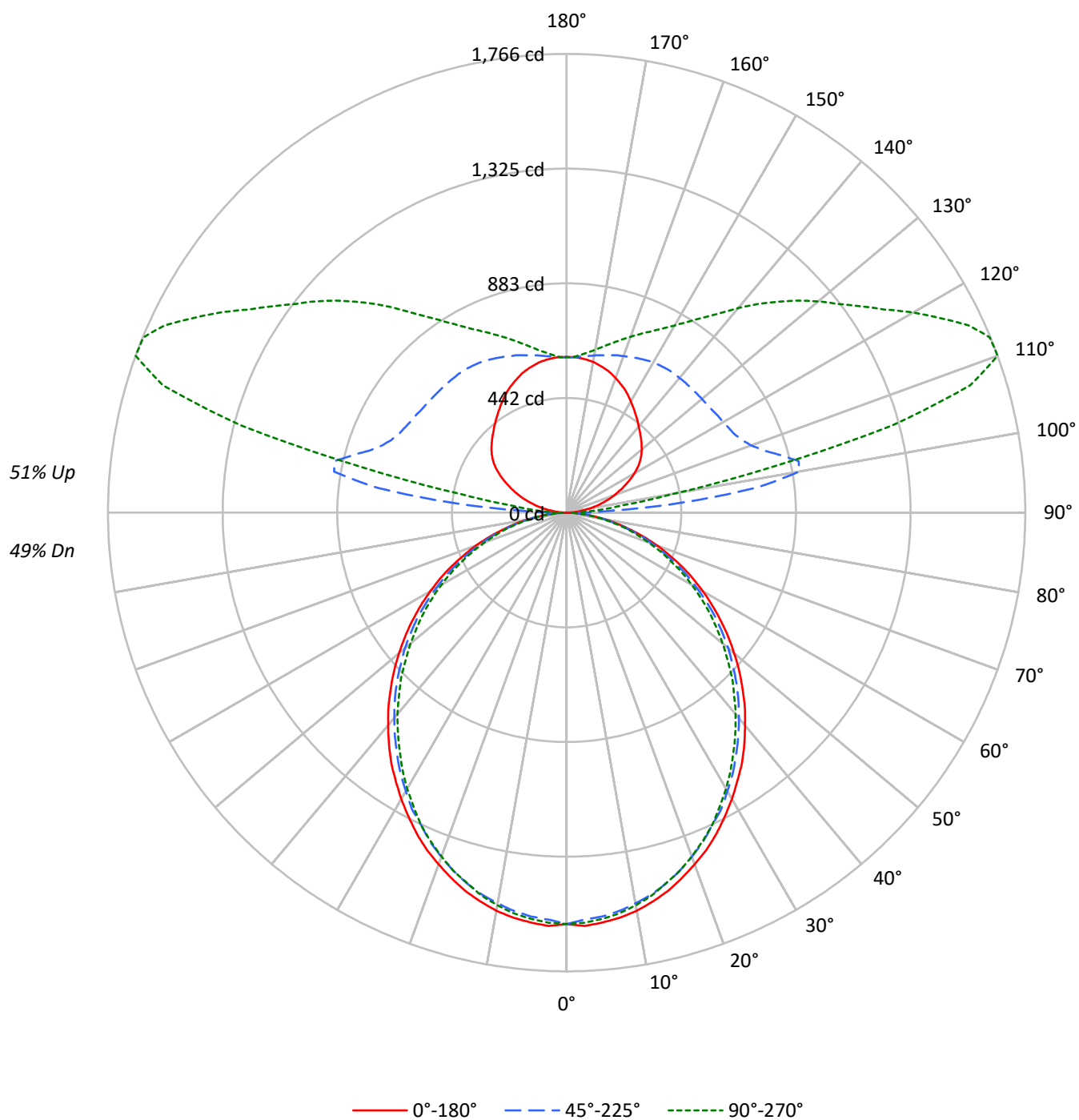
Lumens per Lamp: N/A
Luminaire Lumens: 8205.8 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49		
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41		
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	39	35		
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29		
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25		
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22		
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19		
7	58	46	38	32	53	43	35	30	36	31	27	31	26	23	25	22	20	17		
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15		
9	50	38	30	25	46	35	29	24	30	25	21	26	22	19	22	18	16	14		
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25067	25067	25067
5°	25108	23894	23724
10°	24904	22805	22353
15°	24540	21709	20909
20°	24047	20514	19542
25°	23556	19269	18178
30°	22937	18098	16746
35°	22355	16861	15339
40°	21634	15642	14009
45°	20918	14433	12705
50°	20138	13201	11353
55°	19313	11886	10071
60°	18389	10461	8739
65°	17377	9013	7339
70°	16089	7428	5926
75°	14310	5728	4576
80°	12159	3892	2945
85°	8814	1811	1253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20918 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	1.8
10°-20°	419.4	5.1
20°-30°	616.3	7.5
30°-40°	715.8	8.7
40°-50°	714.9	8.7
50°-60°	623.3	7.6
60°-70°	460.8	5.6
70°-80°	260.7	3.2
80°-90°	72.6	0.9
90°-100°	242.6	3.0
100°-110°	820.3	10.0
110°-120°	862.2	10.5
120°-130°	709.0	8.6
130°-140°	569.7	6.9
140°-150°	430.4	5.2
150°-160°	302.6	3.7
160°-170°	178.2	2.2
170°-180°	58.0	0.7
0°-30°	1184.7	14.4
0°-40°	1900.5	23.2
0°-60°	3238.7	39.5
0°-90°	4032.8	49.1
90°-120°	1925.1	23.5
90°-150°	3634.3	44.3
90°-180°	4173.0	50.9
0°-180°	8205.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1584	1578	1561	1573	1570	150
15°	1508	1498	1479	1485	1477	425
25°	1364	1352	1326	1329	1326	628
35°	1177	1162	1138	1128	1121	735
45°	958	947	924	908	901	739
55°	725	716	697	679	672	648
65°	489	480	464	451	443	483
75°	256	253	245	236	239	273
85°	62	61	59	55	53	70
90°	1	16	39	37	38	6
95°	40	99	451	170	131	42
105°	140	212	853	1524	1297	149
115°	248	312	714	1473	1707	245
125°	345	409	686	1193	1385	307
135°	405	483	678	1003	1148	313
145°	463	532	674	837	916	290
155°	526	568	655	741	770	242
165°	573	590	627	665	676	162
175°	597	598	603	611	609	57
180°	598	598	598	598	598	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.6	1583.6	1583.6	1583.6	1583.6
2.5°	1592.8	1585.1	1568.4	1583.6	1580.6
5°	1583.6	1577.5	1560.8	1573.0	1569.9
7.5°	1573.0	1563.8	1547.1	1559.3	1556.2
10°	1556.2	1545.6	1527.3	1539.5	1534.9
12.5°	1533.4	1524.2	1506.0	1513.6	1510.5
15°	1507.5	1498.4	1478.6	1484.7	1477.0
17.5°	1475.5	1466.4	1446.6	1454.2	1446.6
20°	1440.5	1431.4	1410.0	1414.6	1408.5
22.5°	1405.5	1391.8	1372.0	1372.0	1368.9
25°	1364.4	1352.2	1326.3	1329.3	1326.3
27.5°	1318.7	1308.0	1288.2	1283.7	1276.0
30°	1273.0	1260.8	1238.0	1233.4	1227.3
32.5°	1224.3	1215.1	1190.8	1181.6	1175.5
35°	1177.1	1161.8	1137.5	1128.3	1120.7
37.5°	1123.8	1110.1	1085.7	1075.0	1067.4
40°	1068.9	1056.8	1032.4	1018.7	1012.6
42.5°	1015.7	1003.5	979.1	963.9	954.7
45°	957.8	947.1	924.3	907.5	901.4
47.5°	901.4	890.8	866.4	849.7	840.5
50°	842.1	834.4	813.1	791.8	784.2
52.5°	784.2	773.5	753.7	737.0	726.3
55°	724.8	715.7	697.4	679.1	671.5
57.5°	665.4	657.8	638.0	619.7	613.7
60°	606.0	600.0	578.6	561.9	557.3
62.5°	548.2	537.5	522.3	507.1	501.0
65°	488.8	479.7	464.4	450.7	443.1
67.5°	427.9	420.3	406.6	395.9	389.8
70°	371.5	365.5	351.7	341.1	335.0
72.5°	313.7	307.6	300.0	289.3	284.7
75°	255.8	252.8	245.2	236.0	239.1
77.5°	204.0	198.0	194.9	190.3	185.8
80°	152.3	150.7	147.7	143.1	140.1
82.5°	103.5	103.5	102.0	95.9	95.9
85°	62.4	60.9	59.4	54.8	53.3
87.5°	27.4	24.4	21.3	16.7	15.2
90°	1.2	15.6	39.1	37.4	38.0
92.5°	17.3	54.6	177.3	81.7	70.2
95°	40.3	99.0	451.2	170.4	131.2
97.5°	59.9	130.6	735.5	341.8	219.8
100°	88.6	160.0	909.3	680.8	412.1
102.5°	115.1	186.4	915.1	1151.0	803.4
105°	140.4	211.8	852.9	1524.5	1297.2
107.5°	168.0	237.1	795.3	1659.8	1629.8
110°	195.7	263.0	756.2	1637.9	1765.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.0	287.8	730.9	1563.6	1763.4
115°	247.5	312.5	713.6	1472.7	1707.0
117.5°	275.1	337.2	704.4	1385.8	1621.8
120°	300.4	361.4	696.4	1308.2	1540.1
122.5°	324.6	386.2	691.8	1247.7	1454.9
125°	345.3	408.6	686.0	1193.1	1384.7
127.5°	362.6	429.9	682.6	1146.4	1319.1
130°	377.5	448.9	680.2	1099.2	1265.0
132.5°	391.3	467.3	679.1	1050.3	1208.6
135°	405.2	483.4	677.9	1002.6	1147.6
137.5°	417.8	497.2	677.9	954.2	1088.9
140°	432.8	509.9	676.8	911.6	1027.9
142.5°	447.7	520.2	676.8	870.8	966.9
145°	462.7	531.8	674.5	837.4	916.2
147.5°	478.8	541.0	671.0	808.0	871.3
150°	494.9	550.2	667.6	782.6	832.2
152.5°	511.0	559.4	661.8	761.4	798.8
155°	526.0	568.0	654.9	740.6	770.0
157.5°	538.7	574.9	648.0	721.1	744.7
160°	551.3	581.8	641.1	701.6	720.5
162.5°	564.0	587.0	635.4	683.1	697.5
165°	573.2	590.4	627.3	665.3	675.6
167.5°	581.3	593.9	620.4	649.2	654.9
170°	589.3	595.6	614.6	634.2	636.5
172.5°	593.9	597.4	607.7	621.0	621.5
175°	597.4	598.0	603.1	610.6	608.9
177.5°	599.7	598.5	598.5	603.1	599.7
180°	598.5	598.5	598.5	598.5	598.5

(END OF REPORT)