

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: P1011305

Luminaire Tested: S123DIP-B1165D1195UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011305
REPORT IS A COMBINATION OF REPORTS P989416 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1195UB35-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

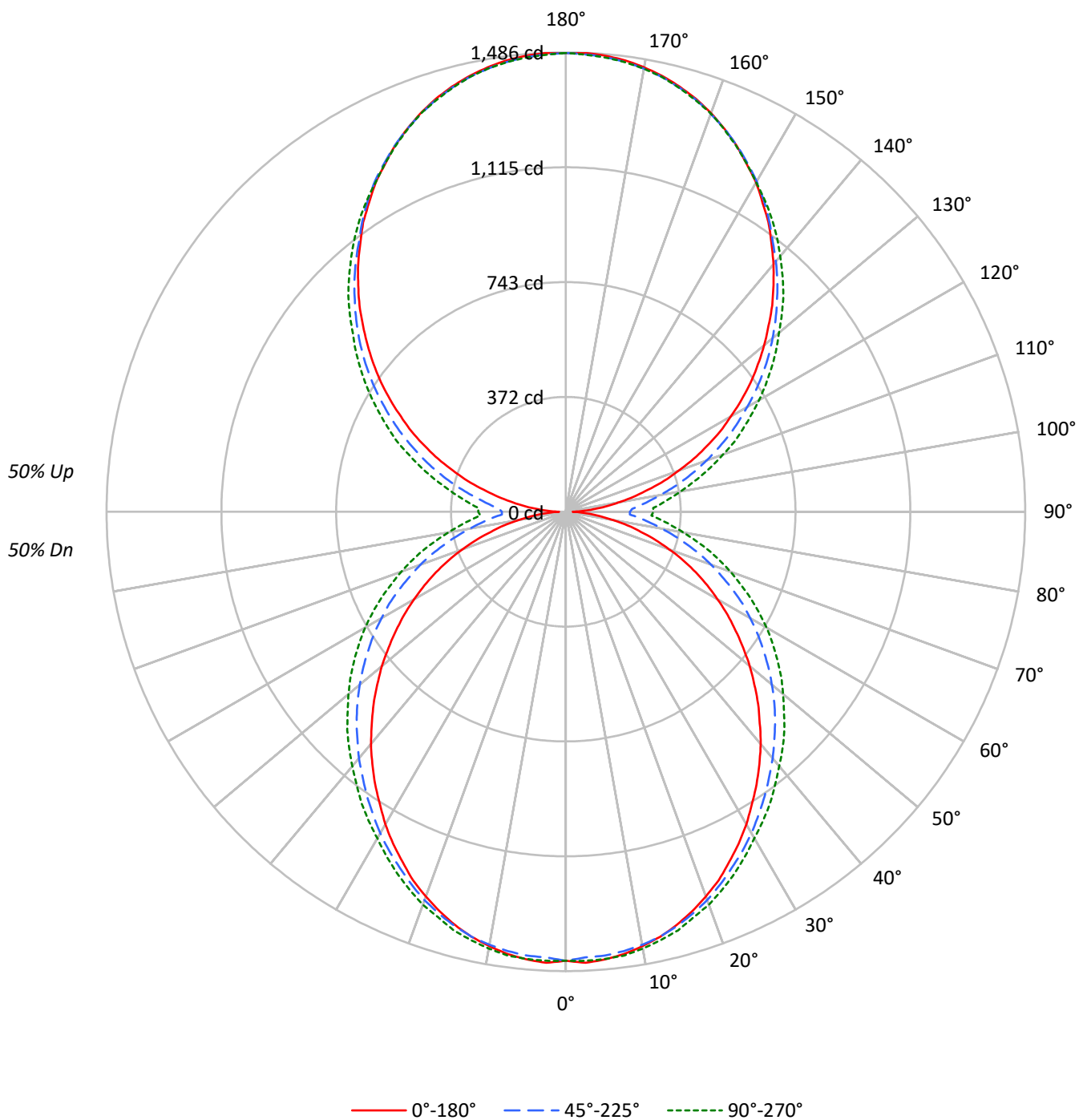
Lumens per Lamp: N/A
Luminaire Lumens: 8997.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56
1	97	92	88	84	89	85	81	78	71	69	66		59	57	55		48
2	88	80	73	68	80	73	68	63	62	58	54		51	48	45		41
3	80	70	62	56	73	64	58	52	54	49	45		45	41	38		36
4	73	61	53	47	67	57	50	44	48	42	38		40	36	32		32
5	67	55	46	40	61	51	43	37	43	37	33		36	31	28		29
6	61	49	41	35	56	45	38	32	39	33	28		32	28	24		26
7	57	44	36	30	52	41	34	28	35	29	25		29	25	21		24
8	53	40	32	27	48	37	30	25	32	26	22		27	22	19		22
9	49	36	29	24	45	34	27	22	29	23	20		25	20	17		20
10	46	33	26	21	42	31	24	20	27	21	18		23	18	15		19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15632	15632	15632
5°	15675	15174	15162
10°	15529	14763	14650
15°	15323	14310	14108
20°	15032	13803	13526
25°	14672	13234	12922
30°	14306	12718	12317
35°	13893	12177	11822
40°	13500	11682	11301
45°	13063	11204	10872
50°	12632	10728	10406
55°	12154	10242	9976
60°	11687	9744	9537
65°	11204	9214	9022
70°	10484	8617	8492
75°	9567	7939	7945
80°	8502	7252	7320
85°	7444	6697	6873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13063 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	1.5
10°-20°	392.8	4.4
20°-30°	587.3	6.5
30°-40°	701.2	7.8
40°-50°	733.7	8.2
50°-60°	688.5	7.7
60°-70°	575.1	6.4
70°-80°	411.2	4.6
80°-90°	247.8	2.8
90°-100°	249.3	2.8
100°-110°	402.2	4.5
110°-120°	567.8	6.3
120°-130°	690.8	7.7
130°-140°	747.4	8.3
140°-150°	719.8	8.0
150°-160°	602.6	6.7
160°-170°	401.2	4.5
170°-180°	140.5	1.6
0°-30°	1117.9	12.4
0°-40°	1819.1	20.2
0°-60°	3241.3	36.0
0°-90°	4475.5	49.7
90°-120°	1219.4	13.6
90°-150°	3377.3	37.5
90°-180°	4522.0	50.3
0°-180°	8997.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1454	1451	1441	1454	1452	138
15°	1384	1389	1388	1403	1402	390
25°	1250	1266	1270	1291	1291	576
35°	1076	1101	1122	1145	1152	673
45°	880	918	957	987	1000	678
55°	671	723	780	823	835	601
65°	464	525	595	642	658	458
75°	252	326	405	457	476	269
85°	78	157	240	294	310	80
90°	22	111	207	265	283	20
95°	86	156	243	297	312	89
105°	275	315	394	438	455	294
115°	504	526	580	620	631	499
125°	730	734	777	806	812	652
135°	944	950	966	990	995	728
145°	1143	1144	1147	1159	1160	714
155°	1307	1307	1308	1313	1305	602
165°	1424	1420	1420	1427	1419	402
175°	1481	1476	1476	1483	1475	141
180°	1484	1484	1484	1484	1484	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.3	1452.3	1452.3	1452.3	1452.3
2.5°	1460.3	1455.5	1442.8	1455.5	1453.9
5°	1453.9	1450.8	1441.3	1453.9	1452.3
7.5°	1442.8	1442.8	1433.4	1449.2	1447.6
10°	1427.0	1430.2	1422.3	1438.1	1434.9
12.5°	1408.0	1412.8	1408.0	1422.3	1419.1
15°	1384.3	1389.1	1387.5	1403.3	1401.7
17.5°	1355.8	1365.3	1363.7	1378.0	1374.8
20°	1324.2	1333.7	1336.8	1351.1	1352.7
22.5°	1291.0	1300.5	1305.2	1324.2	1322.6
25°	1249.8	1265.7	1270.4	1291.0	1291.0
27.5°	1210.3	1227.7	1237.2	1254.6	1256.2
30°	1167.6	1188.1	1200.8	1219.8	1219.8
32.5°	1120.1	1143.8	1161.2	1181.8	1186.6
35°	1075.8	1101.1	1121.7	1145.4	1151.7
37.5°	1028.3	1056.8	1080.6	1107.4	1112.2
40°	980.9	1009.4	1041.0	1067.9	1074.2
42.5°	928.7	965.1	998.3	1028.3	1037.8
45°	879.6	917.6	957.2	987.2	999.9
47.5°	827.4	870.1	914.4	947.7	957.2
50°	776.8	821.1	870.1	906.5	917.6
52.5°	723.0	770.5	825.8	863.8	878.0
55°	670.8	723.0	780.0	822.7	835.3
57.5°	620.2	674.0	735.7	778.4	792.6
60°	566.4	623.3	688.2	732.5	749.9
62.5°	515.8	574.3	643.9	688.2	704.0
65°	463.5	525.2	594.9	642.3	658.1
67.5°	411.3	476.2	545.8	598.0	610.7
70°	356.0	424.0	499.9	550.6	566.4
72.5°	305.3	373.4	452.5	504.7	520.5
75°	251.5	325.9	405.0	457.2	476.2
77.5°	205.7	280.0	359.1	414.5	428.7
80°	156.6	234.1	316.4	370.2	386.0
82.5°	113.9	193.0	276.9	330.7	346.5
85°	77.5	156.6	240.5	294.3	310.1
87.5°	47.5	126.6	207.3	261.0	276.9
90°	21.8	110.9	206.8	265.2	283.4
92.5°	54.0	129.0	215.1	270.8	282.7
95°	86.2	156.1	242.9	296.6	312.4
97.5°	128.9	191.7	273.0	326.4	341.0
100°	172.8	230.5	309.0	358.4	376.5
102.5°	223.8	271.5	350.8	398.6	413.3
105°	275.1	315.3	393.9	438.2	454.7
107.5°	334.1	368.5	438.0	484.2	497.3
110°	388.5	419.3	484.9	530.7	541.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	446.8	470.0	530.2	575.6	589.9
115°	503.5	526.0	580.5	619.7	631.2
117.5°	562.9	576.8	628.3	666.2	675.4
120°	616.1	631.0	677.4	712.6	721.4
122.5°	673.3	681.1	727.8	759.1	766.7
125°	730.0	733.5	777.0	805.6	812.0
127.5°	783.6	789.1	826.3	851.0	857.3
130°	837.2	845.1	873.2	898.6	899.9
132.5°	889.4	898.7	920.1	942.7	947.9
135°	944.2	949.6	965.8	989.6	995.2
137.5°	994.3	998.6	1013.1	1032.6	1037.0
140°	1045.2	1051.0	1056.9	1079.5	1079.3
142.5°	1093.0	1097.2	1099.6	1119.0	1121.1
145°	1143.1	1143.9	1147.4	1158.9	1160.5
147.5°	1184.7	1189.3	1192.8	1197.5	1196.9
150°	1230.2	1232.5	1234.8	1234.8	1231.0
152.5°	1267.5	1271.0	1272.1	1274.5	1268.6
155°	1307.1	1307.1	1308.3	1312.9	1304.8
157.5°	1340.9	1339.8	1340.9	1345.6	1338.6
160°	1372.4	1370.1	1370.1	1375.9	1371.2
162.5°	1400.4	1396.9	1398.1	1403.9	1395.7
165°	1423.7	1420.2	1420.2	1427.2	1419.1
167.5°	1443.5	1438.9	1440.0	1447.0	1440.0
170°	1459.9	1455.2	1455.2	1463.4	1455.2
172.5°	1472.7	1468.0	1468.0	1475.0	1466.9
175°	1480.9	1476.2	1476.2	1483.2	1475.0
177.5°	1485.5	1480.9	1480.9	1487.8	1479.7
180°	1484.3	1484.3	1484.3	1484.3	1484.3

(END OF REPORT)